ORDER NO.DSD0308013C3

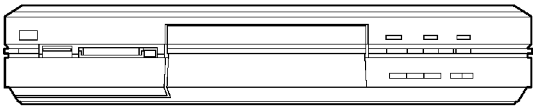
Service Manual

DVD Video Recorder

DMR-E100HGCS / DMR-E100HGN / DMR-E100HGH / DMR-E100HGK

Colour

(S).......................Silver Type



When replacing with Digital P.C.B. or HDD, "UNFORMAT" indication is displayed and HDD must be formatted.
After that, programme in the HDD will be lost.
In detail, please refer to each content in this service manual.

SPECIFICATIONS

Specifications

Power supply:	**AC 220-240 V, 50Hz (For GN/GH/GK)** **AC 220-240 V, 50Hz/60Hz (For GCS)**
Power consumption:	**45 W (Approx. 4.5w (Stand by mode))**
Recording system:	**DVD video recording standards (DVD-RAM),** **DVD video standards (DVD-R)**
Optical pick-up:	**System with 1 lens, 2 integration units (657 nm wavelength for DVDs, 785 nm wavelength for CDs)**
Recordable discs:	**12 cm 4.7 GB DVD-RAM discs** **12 cm 9.4 GB DVD-RAM discs** **8 cm 2.8 GB DVD-RAM discs** **12 cm 4.7 GB DVD-R discs** **(for General Ver. 2.0/4 x SPEED DVD-R Revision 1.0)** **8 cm 1.4 GB DVD-Rdiscs** **(for General Ver. 2.0)**
Recording time:	**Max. 6 hours**

(Using 4.7 GB disc):	XP: Approx. 1 hour
	SP: Approx. 2 hour
	LP: Approx. 4 hour
	EP: Approx. 6 hours
(Using built-in 80 GB HDD):	Max. 106 hours
	XP: Approx. 17 hours
	SP: Approx. 34 hours
	LP: Approx. 68 hours
	EP: Approx. 106 hours
Region number:	Region No.3 (For GCS/GH)
	Region No.4 (For GN)
	Region No.6 (For GK)
Discs played:	12 cm 4.7 GB DVD-RAM discs
	12 cm 9.4 GB DVD-RAM discs
	8 cm 2.8 GB DVD-RAM discs
	12 cm 4.7 GB DVD-R discs
	(for General Ver. 2.0/4 x SPEED DVD-R Revision 1.0)
	8 cm 1.4 GB DVD-Rdiscs
	(for General Ver. 2.0)
	DVD-VIDEO discs
	CD-Audio discs (CD-DA)
	Video CD discs
	DVD-Audio discs
	CD-R/ CD-RW discs
	(CD-DA, Video CD, MP3 formatted discs)
Built-in HDD Capacity:	80 GB
Drive Unit:	High Speed Drive (correspond to 4 times speed with DVD-R disc)
Television System	
Tuner System:	PAL BG/I/DK (For GCS)
	PAL BG (For GN)
	PAL DK/I (For GH/GK)
Channel Coverage:	
VHF:	CHE2-E12 (For CCIR)
	CHR1-R12 (For OIRT)
	CH0-12 (For Australia)
	CH1-11 (For New Zealand)
	CH1-12 (For China)
UHF:	CHE21-E69 (For CCIR)
	CH28-69 (For Australia)
	Ch21-69 (For NewZealand, Hong kong, OIRT)
	CH13-57 (For China)
CATV:	CHS01-S05, CHM1-M10, / CHU1-U10, CHS21-S41 (For CCIR)
	44MHz-470MHz (For New Zealand, OIRT)
	45MHz-470MHz (For Australia)
	CHZ1-Z35 (For China)
RF Converter Output:	Not provided

Video	
Video System:	**PAL colour signal, 625 lines, 50 fields** **NTSC colour signal, 525 lines, 60 fields**
Recording System:	**MPEG2 (Hybrid VBR), MPEG4 (VBR)**
Video In:	**AV1/AV2/AV3 IN (pin jack)** **1 Vp-p 75 ohm, termination**
S-Video In:	**AV1/AV2/AV3 IN (S connector)** **1 Vp-p 75 ohm, termination**
Video Out:	**AV1/AV2 OUT (pin jack)** **1 Vp-p 75 ohm, termination**
S-Video Out:	**AV1/AV2 OUT (S connector)** **1 Vp-p 75 ohm, termination**
Component video output	**Y: 1.0 Vp-p 75 ohm, termination** **PB: 0.7 Vp-p 75 ohm, termination** **PR: 0.7 Vp-p 75 ohm, termination**
DV-Input (PAL/NTSC):	**4-pin**
Audio system	
Recording System:	**Dolby Digital 2ch,** **Linear PCM 2ch (XP mode),** **G.726 (MPEG4)**
Audio In:	**AV1/AV2/AV3 IN (pin jack)**
Input Level:	**Standard: 0.5 Vrms,** **Full scale: 2.0 Vrms at 1 kHz**
Input Impedance:	**More than 10 kΩ**
Audio Out:	**AV1/AV2 OUT (pin jack)**
Output Level:	**Standard: 0.5 Vrms,** **Full scale: 2.0 Vrms at 1 kHz**
Output Impedence:	**less than 1 kΩ**
Digital Audio Out:	**Optical terminal** **(PCM, Dolby Digital, DTS, MPEG)**
SD/PC Card Slot	
SD Memory Card Slot:	**1 pc.**
PC Card Slot (TypeU):	**1 pc.**
Sill Picture (JPEG, TIFF)	
Compatible Media (SD Card Slot):	**SD Memory Card, MultiMediaCard**
Compatible Media (PC Card Slot):	**A PC Card adaptor conforming to PC Card Standards, ATA Flash PC Card, PC Card Adaptor (SD Memory Card, xD-Picture Card, Microdrive, MultiMediaCard, CompactFlash, SmartMedia, Memory Stick), Mobile hard disk**
Format:	**FAT12, FAT16**

Image File Format:	JPEG conforming to DCF (Design rule for Camera File system), / (Sub sampling 4:2:2 or 4:2:0) TIFF (Uncompressed RGB chunky), DPOF Compatible
Number of pixels:	320 x 240 to 6144 x 4096
Thawing Time:	Approx. 7 sec. (2 Mpixels)
SD Video (MPEG4, MPEG2)	
Compatible Media	
(SD Card Slot):	SD Memory Card, MultiMediaCard (restncted to fine, normal, economy of MPEG4)
Compatible Media	
(PC Card Slot):	Mobile hard disk (Only read)
MPGE4	
Codec:	Video: MPEG4 conforming, Audio: G.726 conforming
Number of pixels:	super fine/fine: 320 x 240 (QVGA), normal/economy: 176 x 144 (QCIF)
Recording rate (max):	superfine: 1050 kbps, fine: 430 kbps, normal: 300 kbps, economy: 100 kbps (include Audio transfer rate as 32 kbps)
File format:	SD-Video format conforming (ASF)
MPEG2	*Recording coversion and transfer is possible from card to HDD or DVD-RAM disc. *After Video Recording conversion and transfer to HDD or DVD-RAM disc, the playback is possible.
Codec:	MPEG2 (SD-Video Entertainment Video Profile) (VR conversion and transfer is possible from card to HDD or DVD-RAM disc)
File format:	SD-Video format conforming
Dimensions:	Approx. 430 (W)×79 (H)×296 (D) mm [Approx. 1615 /16 “(W)×31 /8 ” (H)×1111 /16 ” (D)] (excludingprotrusions)
Mass:	Approx. 5.5 kg (12.13 lbs)
Operating temperature range:	5 °C-40°C (41 °F-104 °F)
Operating humidity range:	10 %-80 % RH (no condensation)

Clock unit:	**Quartz-controlled 12-hour digital display**
LASER Specification	
Class 1 LASER Product	
Wave length:	**779-791 nm 653-662 nm**
Laser power:	**No hazardous radiation is emitted with the safety protection.**

Solder:

This model uses lead free solder (PbF).

Notes:

Mass and dimensions are approximate.

Specifications are subject to change without notice.

Notes:

The part of DVD RAM Drive (VXY1789) is listed separately.

Please refer to ORDER NO. RAM0307003C0.

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⚠ WARNING

This service information is designed for experienced repair technicians only and is not designed for use by the general public. It does not contain warnings or cautions to advise non-technical individuals of potential dangers in attempting to service a product. Products powered by electricity should be serviced or repaired only by experienced professional technicians. Any attempt to service or repair the product or products dealt with in this service information by anyone else could result in serious injury or death.

Panasonic

1. SAFETY PRECAUTIONS

1.1. GENERAL GUIDELINES

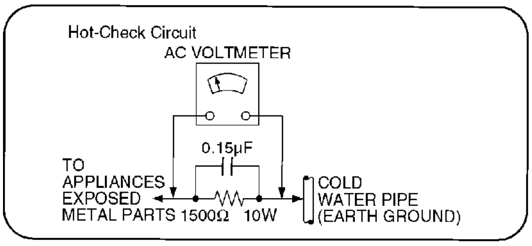
1. **When servicing, observe the original lead dress. If a short circuit is found, replace all parts which have been overheated or damaged by the short circuit.**
2. **After servicing, see to it that all the protective devices such as insulation barriers, insulation papers shields are properly installed.**
3. **After servicing, make the following leakage current checks to prevent the customer from being exposed to shock hazards.**

1.1.1. LEAKAGE CURRENT COLD CHECK

1. **Unplug the AC cord and connect a jumper between the two prongs on the plug.**
2. **Measure the resistance value, with an ohmmeter, between the**

jumpered AC plug and each exposed metallic cabinet part on the equipment such as screwheads, connectors, control shafts, etc. When the exposed metallic part has a return path to thechassis, the reading should be between 1M Ω and 5.2M Ω . / When the exposed metal does not have a return path to the chassis, the reading must be ∞.

Figure 1



1.1.2. LEAKAGE CURRENT HOT CHECK (See Figure 1 .)

1. Plug the AC cord directly into the AC outlet. Do not use an isolation transformer for this check.
2. Connect a 1.5k Ω , 10 watts resistor, in parallel with a 0.15 μ F capacitors, between each exposed metallic part on the set and a good earth ground such as a water pipe, as shown in Figure 1 .
3. Use an AC voltmeter, with 1000 ohms/volt or more sensitivity, to measure the potential across the resistor.
4. Check each exposed metallic part, and measure the voltage at each point.
5. Reverse the AC plug in the AC outlet and repeat each of the above measurements.
6. The potential at any point should not exceed 0.75 volts RMS. A leakage current tester (Simpson Model 229 or equivalent) may be used to make the hot checks, leakage current mu3st not exceed 1/2 milliamp. In case a measurement is outsideof the limits specified, there is a possibility of a shock hazard, and the equipment should be repaired and rechecked before it is returned to the customer.

2. PREVENTION OF ELECTRO STATIC DISCHARGE (ESD) TO ELECTROSTATICALLY SENSITIVE (ES)

DEVICES

Some semiconductor (solid state) devices can be damaged easily by static electricity. Such components commonly are called Electrostatically Sensitive (ES) Devices. Examples of typical ES devices are integrated circuits and some field-effect transistorsand semiconductor "chip" components. The following techniques should be used to help reduce the incidence of component damage caused by electro static discharge (ESD).

1. **Immediately before handling any semiconductor component or semiconductor-equipped assembly, drain off any ESD on your body by touching a known earth ground. Alternatively, obtain and wear a commercially available discharging ESD wrist strap, whichshould be removed for potential shock reasons prior to applying power to the unit under test.**
2. **After removing an electrical assembly equipped with ES devices, place the assembly on a conductive surface such as alminum foil, to prevent electrostatic charge buildup or exposure of the assembly.**
3. **Use only a grounded-tip soldering iron to solder or unsolder ES devices.**
4. **Use only an anti-static solder removal device. Some solder removal devices not classified as "anti-static (ESD protected)" can generate electrical charge sufficient to damage ES devices.**
5. **Do not use freon-propelled chemicals. These can generate electrical charges sufficient to damage ES devices.**
6. **Do not remove a replacement ES device from its protective package until immediately before you are ready to install it. (Most replacement ES devices are packaged with leads electrically shorted together by conductive foam, alminum foil or comparableconductive material).**
7. **Immediately before removing the protective material from the leads of a replacement ES device, touch the protective material to the chassis or circuit assembly into which the device will be installed.**

   Caution

   Be sure no power is applied to the chassis or circuit, and observe all other safety precautions.

8. Minimize bodily motions when handling unpackaged replacement ES devices. (Otherwise hamless motion such as the brushing together of your clothes fabric or the lifting of your foot from a carpeted floor can generate static electricity (ESD) sufficient todamage an ES device).

IMPORTANT SAFETY NOTICE

There are special components used in this equipment which are imporant for safety.
These parts are marked by ⚠ in the schematic diagrams, Exploded Views and replacement parts list. It is essential that these critical parts should be replaced with manufacturer's specified parts to prevent shock, fire, or other hazards. Do not modify the original design without permission of manufacturer.

3. Precaution of Laser Diode

CAUTION:

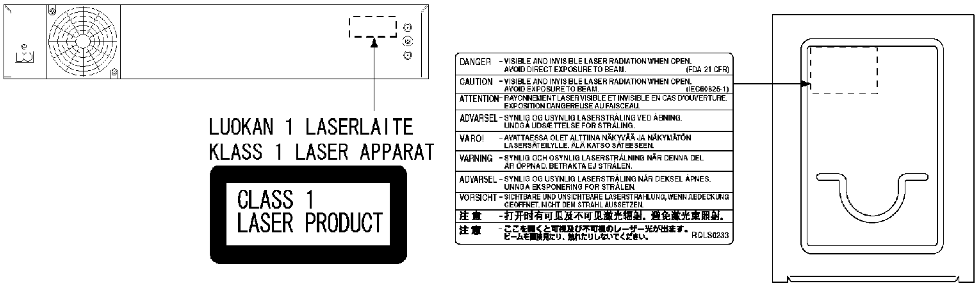
This product utilizes a laser diode with the unit turned "on", invisible laser radiation is emitted from the pickup lens.
Wave length: 779-791 nm/653-662 nm
Maximum output radiation power from pickup: 100 μ W/VDE
Laser radiation from the pickup lens is safety level,but be sure the followings:

1. Do not disassemble the optical pickup unit, since radiation from exposed laser diode is dangerous.
2. Do not adjust the variable resistor on the pickup unit. It was already adjusted.
3. Do not look at the focus lens using optical instruments.
4. Recommend not to look at pickup lens for a long time.

ACHTUNG:

Dieses Produkt enthält eine Laserdiode.
Im eingeschalteten Zustand wird unsichtbare Leserstrahlung von der Laserinheit adgestrahit.
Wellenlänge: 775-815 nm/655-666 nm
Maximale Strahlungsleistung der Lasereinheit: 100 μ W/VDE
Die Strahlungan der Lasereinheit ungefährlich, wenn folgende Punkte beachtet werden:

1. Die Lasereinheit nicht zerlegen, da die Strahlung an der freigelegten Laserdiode gefährlich ist.
2. Den werkseitig justierten Einstellregler der Lasereinhit nicht verstellen.
3. Nicht mit optischen Instrumenten in die Fokussierlines blicken.
4. Nicht über längere Zeit in die Fokussierlines blicken.


LUOKAN 1 LASERLAITE
KLASS 1 LASER APPARAT
CLASS 1
LASER PRODUCT
DANGER - VISIBLE AND INVISIBLE LASER RADIATION WHEN OPEN. AVOID DIRECT EXPOSURE TO BEAM. (FDA 21 CFR)
CAUTION - VISIBLE AND INVISIBLE LASER RADIATION WHEN OPEN. AVOID EXPOSURE TO BEAM. (IEC60825-1)
ATTENTION - RAYONNEMENT LASER VISIBLE ET INVISIBLE EN CAS D'OUVERTURE. EXPOSITION DANGEREUSE AU FAISCEAU.
ADVARSEL - SYNLIG OG USYNLIG LASERSTRÅLING VED ÅBNING. UNDGÅ UDSÆTTELSE FOR STRÅLING.
VARO! - AVATTAESSA OLET ALTTIINA NÄKYVÄÄ JA NÄKYMÄTÖN LASERSÄTEILYLLE. ÄLÄ KATSO SÄTEESEEN.
VARNING - SYNLIG OCH OSYNLIG LASERSTRÅLNING NÄR DENNA DEL ÄR ÖPPNAD. BETRAKTA EJ STRÅLEN.
ADVARSEL - SYNLIG OG USYNLIG LASERSTRÅLING NÅR DEKSEL ÅPNES. UNNGÅ EKSPONERING FOR STRÅLEN.
VORSICHT - SICHTBARE UND UNSICHTBARE LASERSTRAHLUNG, WENN ABDECKUNG GEÖFFNET. NICHT DEM STRAHL AUSSETZEN.
注 意 - 打开时有可见及不可见激光辐射。避免激光束照射。
注 意 - ここを開くと可視及び不可視のレーザー光が出ます。ビームを直接見たり、触れたりしないでください。
RQLS0233

CAUTION!
THIS PRODUCT UTILIZES A LASER.
USE OF CONTROLS OR ADJUSTMENTS OR PERFORMANCE OF PROCEDURES OTHER THAN THOSE SPECIFIED HEREIN MAY RESULT IN HAZARDOUS RADIATION EXPOSURE.

4. How to replace the Lithium Battery

REPLACEMENT PROCEDURE

1. Remove the Top cover and DVD-RAM drive unit with Main P.C.B. by referring the Disassembling Procedure.

2. Unsolder the Lithium Batteries: B7501 and then replace it into new one.
(As shown in 15.2. The Main P.C.B.)

NOTE:
The lithium battery is a critical component. (Type No.: CR2354-1GUF Manufactured by Panasonic.)
It must never be subjected to excessive heat or discharge.
It must therefore only be fitted in equipment designed specifically for its use.
Replacement batteries must be of the same type and manufacture.
They must be fitted in the same manner and location as the original battery, with the correct polarity contacts observed.
Do not attempt to re-charge the old battery or re-use it for any other purpose.
It should be disposed of in waste products destined for burial rather than incineration.

(For English)

CAUTION
Danger of explosion if battery is incorrectly replaced.
Replace only with the same or equivalent type recommended by the equipment manufacturer.
Discard used batteries according to manufacturer's instructions.

(For French)

PRECAUTION
Le fait de remplacer incorrectement la pile peut présenter des risques d'explosion.
Remplacer la pile uniquement par une pile identique ou de type équivalent recommandée par le fabricant. Se débarrasser des piles usagées conformément aux instructions du fabricant.

(For German)

VORSICHT
Bei einer falsch eingesetzten Batterie besteht Explosionsgefahr. Nur mit einer vom gleichen Typ ersetzen.
Verbrauchte Batterien beim Fachhändler oder einer Sammelstelle für Sonderstoffe abliefern.

(For Swedish)

VARNING
Explosionsfara vid felaktigt batteribyte.
Använd samma batterityp eller en ekvivalent typ som rekommenderas av apparattillverkaren.
Kassera använt batteri enligt fabrikantens instruktion.

(For Norwegian)

ADVARSEL!
Lithiumbatteri-Eksplosionsfare ved fejlagtig håndtering.
Udskiftning má kun ske med batteri af samme fabrikat og type.
Levér det brugte batteri tilbage til leverandøren.

(For Finnish)

VAROITUS
Paristo voi räjähtää, jos se on virheellisesti asennettu.
Vaihda paristo ainoastaan laitevalmistajan suosittelemaan tyyppiin.
Hävitä käytetty paristo valmistajan ohjeiden mukaisesti.

5. Handling the Lead-free Solder

5.1. About lead free solder (PbF)

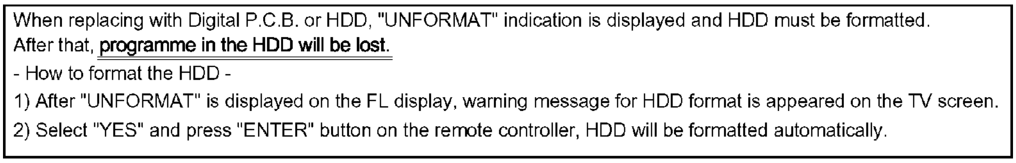
Caution:

- Pb free solder has a higher melting point than standard solder;

Typically the melting point is 50 - 70°F (30 - 40°C) higher. Please use a high temperature soldering iron. In case of the soldering iron with temperature control,please set it to 700 ± 20°F (370 ± 10°C).

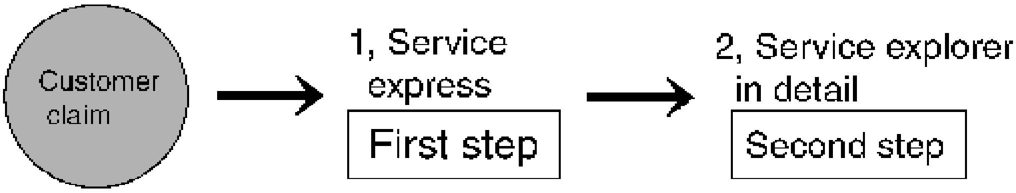
- **Pb free solder will tend to splash when heated too high (about 1100°F/600°C).**
- **When soldering or unsoldering, please completely remove all of the solder on the pins or solder area, and be sure to heat the soldering points with the Pb free solder until it melts enough.**

6. Service Explorer



When replacing with Digital P.C.B. or HDD, "UNFORMAT" indication is displayed and HDD must be formatted.
After that, programme in the HDD will be lost.
- How to format the HDD -
1) After "UNFORMAT" is displayed on the FL display, warning message for HDD format is appeared on the TV screen.
2) Select "YES" and press "ENTER" button on the remote controller, HDD will be formatted automatically.

The Service Explorer provides information about all possible causes based on the symptoms and gives step by step instructions making parts. It consists of two parts, based on applications : the first is the “Service Explorer Express” andthe second is “Service Explorer in Detail”.

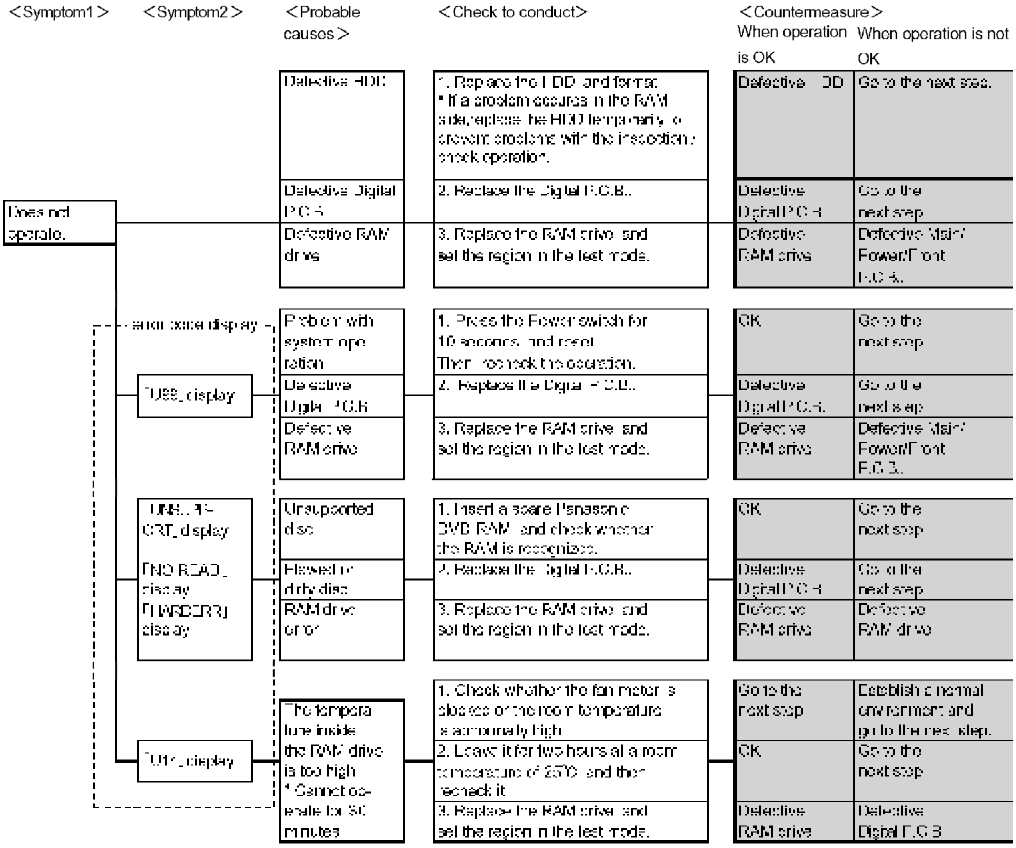


1. **For details about the service / test modesetting mentioned in the description, refer to the “List of various modes”.**
   - **Service mode setting: While the power is off, press TIME SLIP, STOP, and OPEN / CLOSE simultaneously for five seconds.**
   - **Process mode 1 setting: While the power is off, press SKIP(R), TIME SLIP, and OPEN / CLOSE simultaneously for five seconds.**
2. **For disassembly and replacement procedures, refer to the “Assembling and Disassemling”.**

6.1. Service Explorer Express

The following steps allow you to check each block separately (HDD, Digital P.C.B., RAM drive, Main / Power Supply / Front P.C.B.).

Items needed: RAM drive, Digital P.C.B., Digital extension cable, Remote control HDD.
Conditions: Nothing special.



<Symptom1>	<Symptom2>	<Probable causes>	<Check to conduct>	<Countermeasure> When operation is OK	When operation is not OK
Does not operate.		Defective HDD	1. Replace the HDD and format. * If a problem occurs in the RAM side, replace the HDD temporarily to prevent problems with the inspection; check operation.	Defective HDD	Go to the next step.
		Defective Digital P.C.B.	2. Replace the Digital P.C.B..	Defective Digital P.C.B.	Go to the next step
		Defective RAM drive	3. Replace the RAM drive, and set the region in the test mode.	Defective RAM drive	Defective Main/Power/Front P.C.B.
	Error code display [U88] display	Problem with system operation	1. Press the Power switch for 10 seconds, and reset. Then, recheck the operation.	OK	Go to the next step
		Defective Digital P.C.B.	2. Replace the Digital P.C.B..	Defective Digital P.C.B.	Go to the next step
		Defective RAM drive	3. Replace the RAM drive, and set the region in the test mode.	Defective RAM drive	Defective Main/Power/Front P.C.B.
	[UNSUPP-ORT] display [NO READ] display [HARDERR] display	Unsupported disc	1. Insert a spare Panasonic DVD-RAM, and check whether the RAM is recognized.	OK	Go to the next step
		Flawed or dirty disc	2. Replace the Digital P.C.B..	Defective Digital P.C.B.	Go to the next step
		RAM drive error	3. Replace the RAM drive, and set the region in the test mode.	Defective RAM drive	Defective RAM drive
	[U14] display	The temperature inside the RAM drive is too high * Cannot operate for 30 minutes	1. Check whether the fan motor is blocked or the room temperature is abnormally high	Go to the next step	Establish a normal environment and go to the next step.
			2. Leave it for two hours at a room temperature of 25°C and then recheck it	OK	Go to the next step
			3. Replace the RAM drive, and set the region in the test mode.	Defective RAM drive	Defective Digital P.C.B.

Remote control key check

<Symptom1>	<Symptom2>	<Probable causes>	<Check to conduct>	<Countermeasure> When operation is OK	When operation is not OK
Does not operate	[F CHK REMOTE] display	The remote control code is different from the main unit code.	1. Select [Remote control code] of the initial setting (when [F] is displayed, press [1] and [ENTER]). 2. Press any key, and check the operation.	OK	Replace the remote control.
		The DVD or TV switch setting is wrong.	1. Move the switch to the DVD side and check the operation	OK	Go to the next step.
		Battery insertion direction	2. Check the battery polarity.	OK	Go to the next step
		Dead batteries	3. Replace the batteries with new ones	Dead batteries	Go to the next step
		Defective remote control	4. Replace the remote control with a new one.	Defective remote control	Go to the next step.
	Only specific keys do not operate, or none of the keys operate	Defective Front P.C.B. (defective light-detecting section)	5. Replace the Front P.C.B. or check and repair	Defective Front P.C.B.	Go to the next step.
		Poor connection between the Front and Main P.C.B.s Defective Main PCB (timer)	6. Replace the Main P.C.B. or check and repair	Defective Main P.C.B. (including the connector)	Go to the next step.
		Defective Power P.C.B.	7. Replace the Power P.C.B. or check and repair	Defective Power P.C.B.	--

Main unit key check

		Poorly lit with the front panel	1. Check the operation of each key in the front inspection mode (*) *: Transfer the signals from the remote control keys [5] and [4] in the service mode setting.	Go to the next step	Poorly lit with the front panel or damaged keypad.
	Only specific keys do not operate, or none of the keys operate	Defective Front P.C.B	2. Replace the Front P.C.B. or check and repair	Defective Front P.C.B	Go to the next step.
		Poor connection between the front and Main P.C.B.s Defective Main P.C.B. (timer)	3. Replace the Main P.C.B. or check and repair	Defective Main P.C.B. (including the connector)	Go to the next step.
		Defective Power P.C.B.	4. Replace the Power P.C.B. or check and repair	Defective Power P.C.B.	--

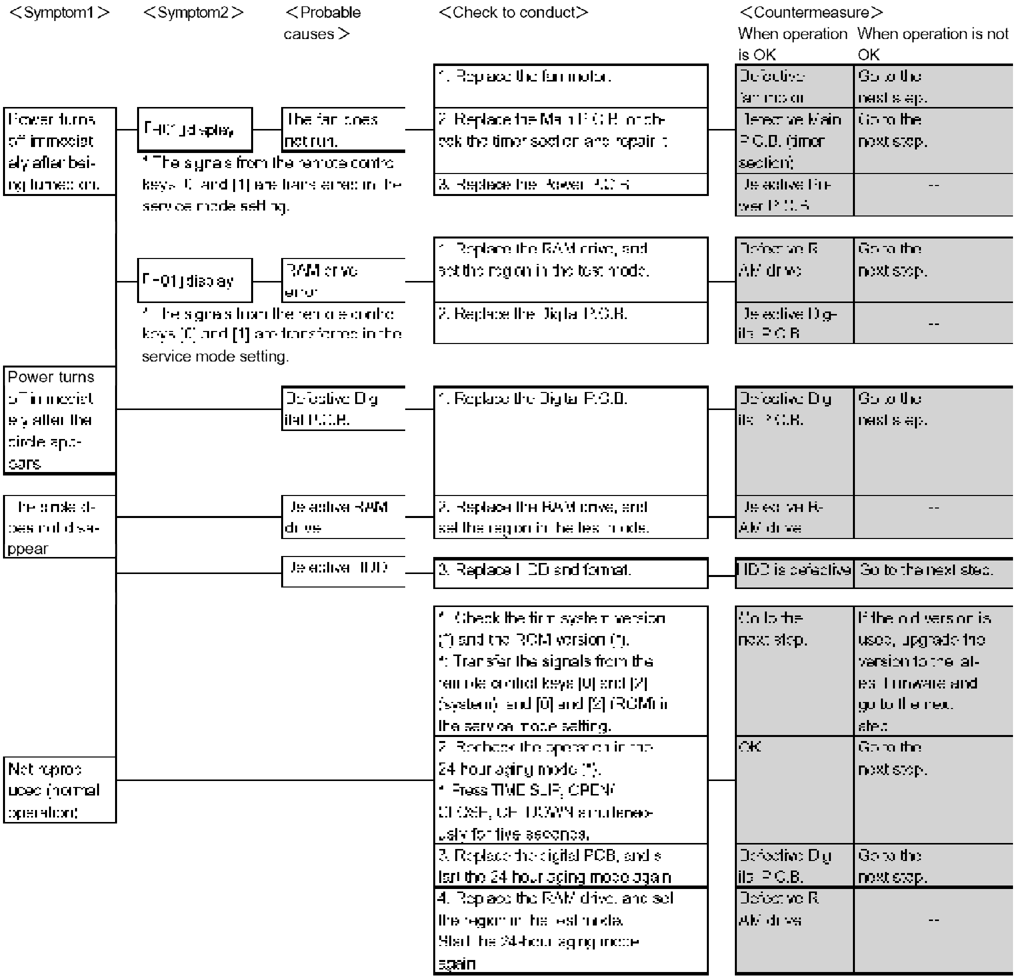
<Symptom1>	<Symptom2>	<Probable causes>	<Check to conduct>	<Countermeasure> When operation is OK	When operation is not OK
Poor picture and sound		Defective HDD	1. Replace the HDD and format. * If a problem occurs in the RAM side, replace the HDD temporarily to prevent problems with the inspection / check operation.	If the HDD side is considered defective, HDD defective. If the RAM side is considered defective, go to the next step.	Go to the next step
		Defective Main P.C.B.	2. Move the digital extension cable switch to [MAIN], install the original digital PCB and insert.	Go to the next step. (The Main P.C.B. is OK.)	Defective Main P.C.B.
		Defective RAM drive	3. Move the digital extension cable switch to [Digital], transfer the signals from the remote control keys [1] and [3] (FF2 mode) in the service mode setting	Defective RAM drive	Go to the next step.

6.2. Service Explorer in Detail

6.2.1. Does not operate

items needed: RAM drive, digital P.C.B., remote control.

Conditions: Nothing special.



<Symptom1>	<Symptom2>	<Probable causes>	<Check to conduct>	<Countermeasure> When operation is OK	When operation is not OK
Power turns off immediately after being turned on.	「H0[illegible]」display * The signals from the remote control keys [0] and [1] are transferred in the service mode setting.	The fan does not run.	1. Replace the fan motor.	Defective fan motor	Go to the next step.
			2. Replace the Main P.C.B. or check the timer section and repair it.	Defective Main P.C.B. (timer section)	Go to the next step.
			3. Replace the Power P.C.B.	Defective Power P.C.B.	--
	「F01」display * The signals from the remote control keys [0] and [1] are transferred in the service mode setting.	RAM drive error	1. Replace the RAM drive, and set the region in the test mode.	Defective RAM drive	Go to the next step.
			2. Replace the Digital P.C.B.	Defective Digital P.C.B.	--
Power turns off immediately after the circle appears		Defective Digital P.C.B.	1. Replace the Digital P.C.B.	Defective Digital P.C.B.	Go to the next step.
The circle does not disappear		Defective RAM drive	2. Replace the RAM drive, and set the region in the test mode.	Defective RAM drive	--
		Defective HDD	3. Replace HDD and format.	HDD is defective	Go to the next step.
Not reproduces (normal operation)			1. Check the firm system version (*) and the ROM version (*). *: Transfer the signals from the remote control keys [0] and [2] (system) and [0] and [2] (ROM) in the service mode setting.	Go to the next step.	If the old version is used, upgrade the version to the latest firmware and go to the next step.
			2. Recheck the operation in the 24 hour aging mode (*). *: Press TIME SLIP, OPEN/CLOSE, CH DOWN simultaneously for five seconds.	OK	Go to the next step.
			3. Replace the digital PCB, and start the 24 hour aging mode again	Defective Digital P.C.B.	Go to the next step.
			4. Replace the RAM drive, and set the region in the test mode. Start the 24-hour aging mode again	Defective RAM drive	--

6.2.2. Poor Pictures

Items needed: RAM drive, Digital P.C.B., RF cable, AV cable.

Conditions: Check with TU IN-AV OUT(EE). When recording or playback is partially needed, follow the instructions.

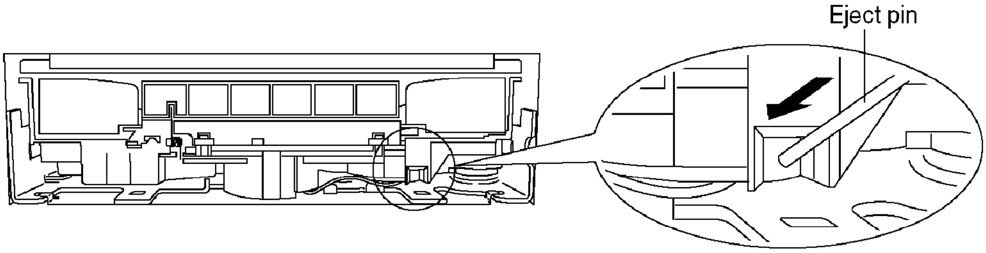
<Symptom1>	<Symptom2>	<Probable causes>	<Check to conduct>	<Countermeasure> When operation is OK	When operation is not OK
Noise in the picture and sound. No picture color		The signal is too weak.	1.Confirm whether connecting through VCR.	Go to the next step.	Connect to roof rod directly
		The tuner signal reception is too weak	2. Reconnect the RF cable to TV, and check the picture and sound.	Go to the next step.	Poor signal reception
		The RF cable is badly damaged.	3. Replace the RF cable, and check.	Defective RF cable	Go to the next step.
		The AV cable is badly damaged.	4. Replace the AV cable, and check.	Defective AV cable	Go to the next step.
		Defective Main P.C.B..	5. Move the digital extension cable switch to [MAIN], install the original digital PCB and insert	Go to the next step (The Main PCB is OK)	Defective Main P.C.B.
		Defective Digital P.C.B.	6. Replace the Digital P.C.B.	Defective Digital P.C.B.	
		Defective HDD	7. Replace HDD, and format	Defective HDD	Go to the next step.
No picture or sound is output.		Defective RF cable	1. Replace the RF cable, and check	Defective RF cable	Go to the next step.
		Defective AV cable	2. Replace the AV cable, and check	Defective AV cable	Go to the next step.
		Defective Main P.C.B.	3. Move the digital extension cable switch to [MAIN], install the original digital PCB and insert	Go to the next step (The Main PCB is OK)	Defective Main P.C.B.
		Defective Digital P.C.B.	4. Replace the Digital P.C.B..	Defective Digital P.C.B.	
		Defective HDD	5. Replace HDD, and format	Defective HDD	Go to the next step.
Picture and sound are not synchronized		Poor tuner signal reception	1. Select a different broadcast channel, and check	Poor signal reception	Go to the next step.
		Defective Digital P.C.B.	2. Replace the Digital P.C.B..	Defective Digital P.C.B.	--
		Defective HDD	3.Replace HDD, and format.	Defective HDD	Go to the next step.
Block noise		Defective RAM drive, Digital P.C.B. and HDD	1. Replace the RAM drive, and set the region in the test mode.	(Auto recording and playback) Defective RAM drive	Go to the next step.
			2. Replace the Digital P.C.B.	(Auto recording and playback) Defective Digital P.C.B.	--
			3. Replace HDD and format.	Defective HDD	(Auto recording and playback) Go to the next step.
Not reproduces (normal operation)			1. Check the firm system version (*) and the ROM version (*) *: Transfer the signals from the remote control keys [0] and [2] (system) and [0] and [2] (ROM) in the service mode setting.	Go to the next step	If the old version is used, upgrade the version to the latest firmware and go to the next step.
			2. Recheck the operation in the 24-hour aging mode (*) * Press TIME SLIP, OPEN/CLOSE, CH DOWN simultaneously for five seconds.	OK	Go to the next step
			3. Replace the Digital PCB, and start the 24-hour aging mode again	Defective Digital P.C.B.	Go to the next step.
			4. Replace the RAM drive, and set the region in the test mode. Start the 24-hour aging mode again	Defective RAM drive	

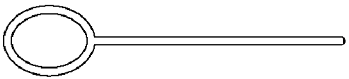
6.2.3. Other

Items needed: Digital P.C.B., HDD.

Conditions: Nothing special.

<Symptom1>	<Symptom2>	<Probable causes>	<Check to conduct>	<Countermeasure> When operation is OK	When operation is not OK
No media can be played.		Erasing the AV ID	1. When the tray is open, press SKIP(R) and SKIP(L) simultaneously for five seconds.	When the operation is normal, it is OK. If it is abnormal, go to the next step.	Go to the next step.
The disc cannot be removed. (Sales demonstration LOCK)		Sales demonstration LOCK	1. Press the OPEN or CLOSE button, and make sure that the LOCK display is brought up. Then, when the power is on, press STOP and POWER simultaneously for five seconds.	If [UNLOCK] appears and the tray opens, it is OK.	--
The disc cannot be removed. (Malfunction)		The disc is stuck because the deck is not working properly	1. When the power is off, press STOP and CH_UP simultaneously for five seconds.	If the tray opens, it is OK.	Go to the next step.
			2. Remove the front panel, remove the disc using an eject pin. (Refer to the following drawing.)	If the disc can be ejected, it is OK.	Go to the next step.





Eject pin
(Part number : JZS0484)

Turn the gear with an eject pin.

<Symptom1>	<Symptom2>	<Probable causes>	<Check to conduct>	<Countermeasure> When operation is OK	When operation is not OK
A timer program has not been created	[F12] display	Timer program error (defective Main P.C.B.)	1. Replace the Main P.C.B. or check and repair. Check the timer program operation using the timer section.	Defective Main P.C.B.	--

* Transfer the signals from the remote control keys [0] and [1] in the service test setting.

6.2.4. Some defective functions

Items needed: PC card adaptor (media), Digital P.C.B.

conditions: Nothing special

<Symptom1>	<Symptom2>	<Probable causes>	<Check to conduct>	<Countermeasure> When operation is OK	When operation is not NG
The PC card does not operate		Poor seating of the PC card	1. Check whether [CARD] appears on the FL display.	OK	Go to the next step.
		Defective PC card P.C.B.	2. Insert removable media and check the operation in the PC card inspection mode(*). * Transfer the signals from the remote control keys [7] and [1] in the service mode setting. 3. Insert recorded media and check the operation in the JPEG decode inspection mode(*). * Transfer the signals from the remote control keys [7] and [2] in the service mode setting.	OK	Go to the next step.
		Poor connection with the PC card	4. Remove the front panel, and make sure that the mechanism section and connector of the PC card slot are connected.	OK	Go to the next step.
		Defective Digital P.C.B.	5. Replace the Digital P.C.B.	Defective Digital P.C.B.	—

6.2.5. Caution when replacing the parts

1. RAM Drive

In case the unit does not operate normally after replacement of the RAM Drive with new one.

A. While power is off, press [SKIP (R)], [TIME SLIP] and [OPEN/CLOSE] keys simultaneously for five seconds. Then the unit turns into “TEST Mode”, and the region code is stored on the new RAM Drive automatically.

FL Indication:

TEST AV1

After few seconds, turn off the power and turn on the power again, then the unit operates normally.

Note:
In this case, all parameters are initialized.

2. Timer Microprocessor (IC7501)

In case the unit does not operate normally after replacement of the Timer Microprocessor with new one.

A. While power is ON, short IC7505-1 pin (RESET) and the GND in order to transmit the “RESET (L)” to the reset terminal of Timer Microprocessor (IC7501-18 pin), then the unit operates normally.

7. Standard Inspection Specifications after Making Repairs

7.1. Standard Inspection Specification

After making repairs, we recommend performing the following inspection, to check normal operation.

No.	Procedure	Item to Check
1	Turn on the power.	The Panasonic RAM disc should be reco
2	Enter the EE (TU IN / AV IN - AV OUT) mode.	No abnormality should be seen in the pic sound or operation.
3	Perform auto recording and playback for one minute using the RAM disc.	No abnormality should be seen in the pic sound or operation.
4	Model with the HDD : Perform auto recording and playback for one minute using the HDD	No abnormality should be seen in the pic sound or operation.
5	If a problem is caused by a VCD, DVD-R, DVD-Video, Audio-CD, or MP3, playback the test disc.	No abnormality should be seen in the pic sound or operation.
6	In case of that the trouble is caused by SD/PC card and/or DV terminal.	1) SD/PC card: Check to be able to displa copy the picture. 2) DV terminal: Check to be able to recor DVC.
7	After checking and making repairs, upgrade the firmware to the latest version.	Make sure that [FIRM_SUCCESS] appear FL displays.
8	Transfer [9][9] in the service mode setting, and initialize the service settings (return various settings and error information to their default values. The laser time is not included in this initialization).	Make sure that [FACT INIT] appears in th display. After checking it, turn the power off.
9	To replace the RAM drive, reset all the information (including the laser time) in the process mode 1 setting. *The laser time is the total time that DVDs or CDs have been played or recorded.It is recorded on the Digital P.C.B..	Maku sure that [TEST AV1] appears in th display. After checking it, turn the power off.

Use the following checklist to establish the judgement criteria for the picture and sound.

Item	Contents	Check	Item	Contents
Picture	Block noise		Sound	Distorted sound
	Crosscut noise			noise (static, background noise, etc.)
	Dot noise			The sound level is too low.
	Picture disruption			The sound level is too high.
	Not bright enough			The sound level changes.
	Too bright			
	Flickering color			
	Color fading			

7.2. Adjustment Procedures

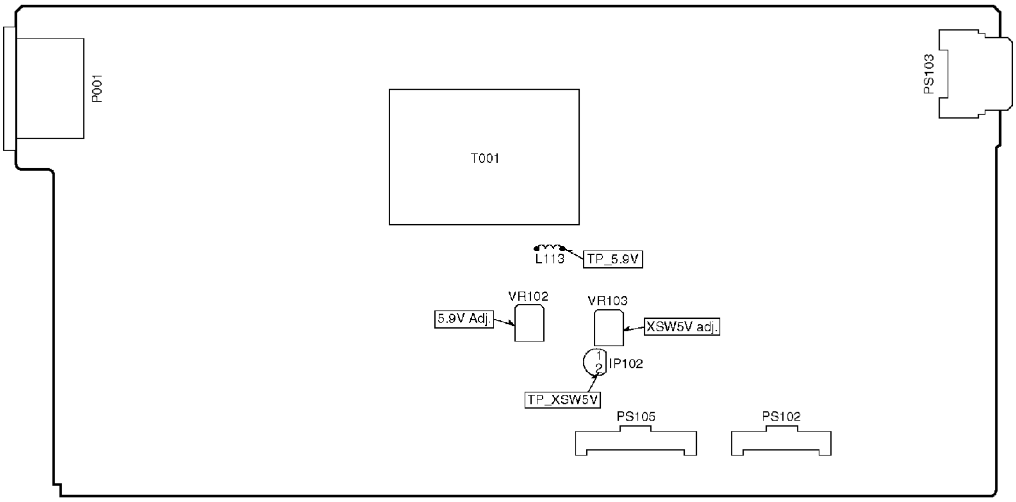
7.2.1. Power Supply Adjustment

1. When change the Power Supply P.C.B. or parts on Power Supply

P.C.B., confirm the power voltages are in the specification shown below. If the voltages are out of specification, adjust the voltages are in the specification as shown below.

Adj. Item	Adj.	Test Point	Adjustment Value
5.9V Adjustment	VR102	5.9V - GND	5.80 ~ 5.95V
XSW5V Adjustment	VR103	XSW5V - GND	5.00 ~ 5.15V

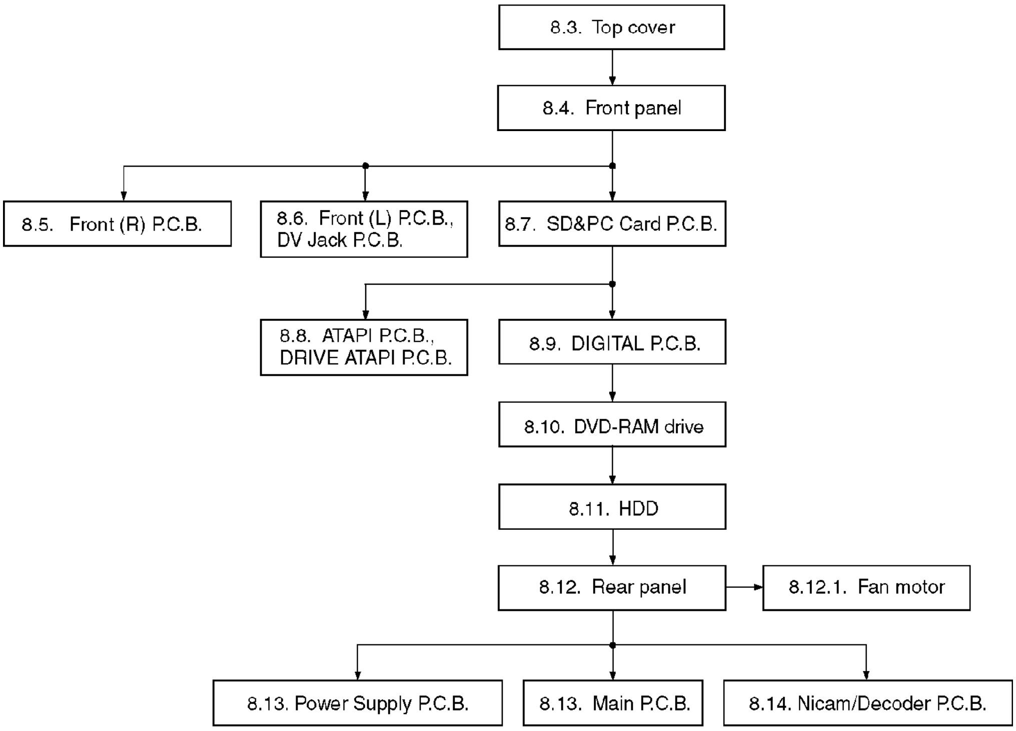
POWER P.C.B. (COMPONENT SIDE)


P001
PS103
T001
L113
TP_5.9V
VR102
VR103
5.9V Adj.
XSW5V adj.
1
2
IP102
TP_XSW5V
PS105
PS102

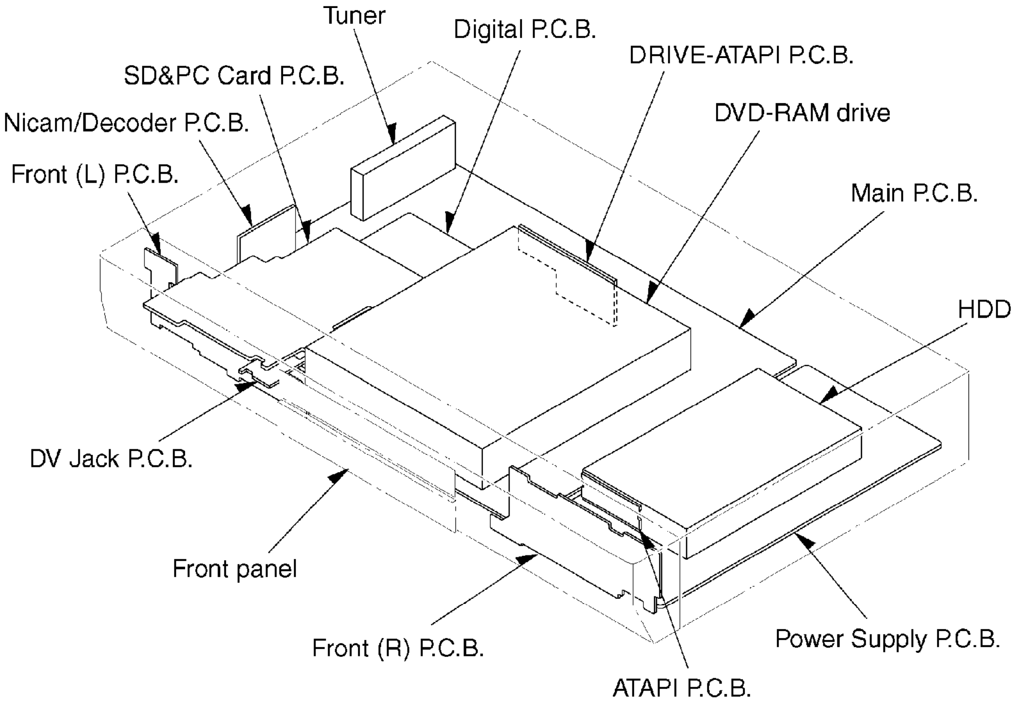
8. Assembling and Disassembling

8.1. Disassembly flow chart

The following chart is the procedure for disassembling the casing and inside parts for internal inspection when carrying out the servicing.
To assemble the unit, reverse the steps shown in the chart below.

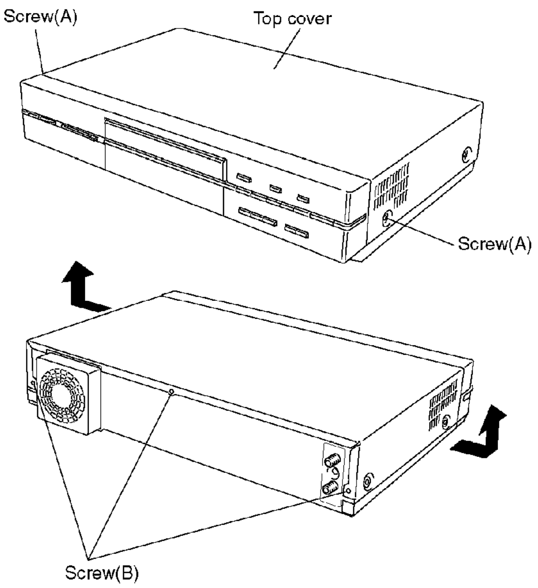

8.3. Top cover
8.4. Front panel
8.5. Front (R) P.C.B.
8.6. Front (L) P.C.B., DV Jack P.C.B.
8.7. SD&PC Card P.C.B.
8.8. ATAPI P.C.B., DRIVE ATAPI P.C.B.
8.9. DIGITAL P.C.B.
8.10. DVD-RAM drive
8.11. HDD
8.12. Rear panel
8.12.1. Fan motor
8.13. Power Supply P.C.B.
8.13. Main P.C.B.
8.14. Nicam/Decoder P.C.B.

8.2. P.C.B. Positions


Tuner
Digital P.C.B.
DRIVE-ATAPI P.C.B.
SD&PC Card P.C.B.
DVD-RAM drive
Nicam/Decoder P.C.B.
Front (L) P.C.B.
Main P.C.B.
HDD
DV Jack P.C.B.
Front panel
Front (R) P.C.B.
Power Supply P.C.B.
ATAPI P.C.B.

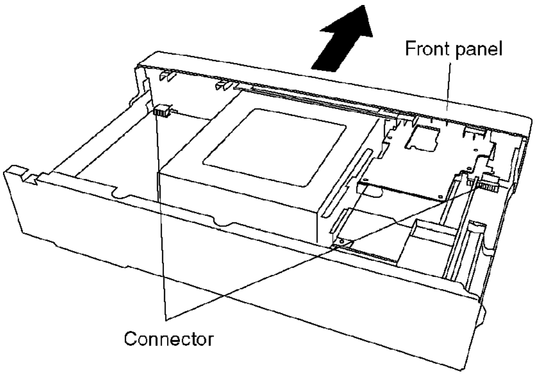
8.3. The Top Cover

1. **Remove the 2 screws (A) and 3 screws (B).**
2. **Open the both ends at the front side of the Top cover a bit and lift the Top cover in the direction of the arrows.**


Screw(A)
Top cover
Screw(A)
Screw(B)

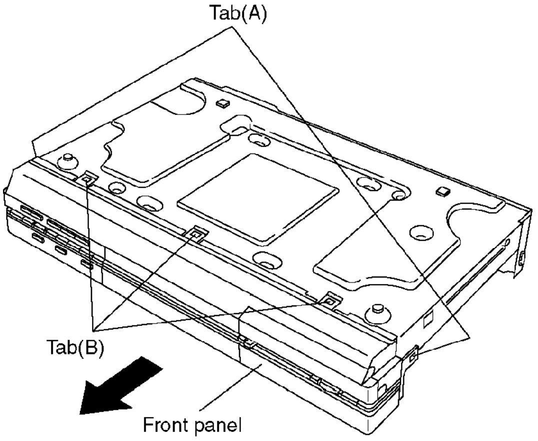
8.4. The Front panel

1. Remove the 2 connectors.


Front panel
Connector

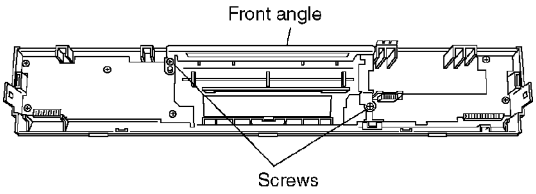
2. Remove the 2 tabs (A) and 3 tabs (B) in this order. (The tab (A) and the tab (B) should be removed at the same time, respectively.)

3. Move the front panel to your side slowly and remove it.

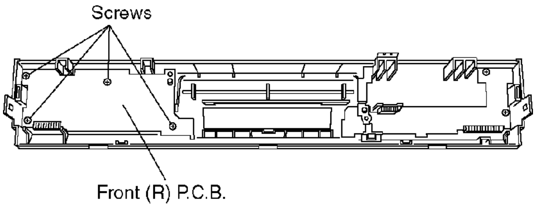

Tab(A)
Tab(B)
Front panel

8.5. The Front (R) P.C.B.

1. Remove the 2 screws and remove the Front Angle.

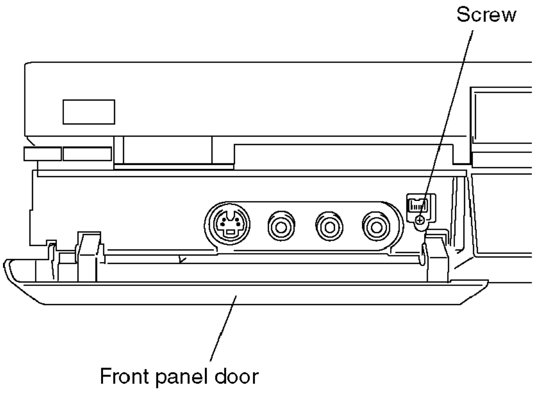

Front angle
Screws

2. Remove the 4 screws and remove the Front (R) P.C.B.

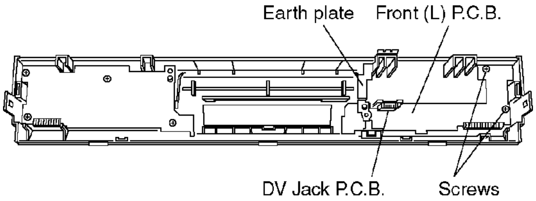

Screws
Front (R) P.C.B.

8.6. The Front (L) and DV Jack P.C.B.

1. Remove 1screw inside of the Front panel door with a precision screw driver.

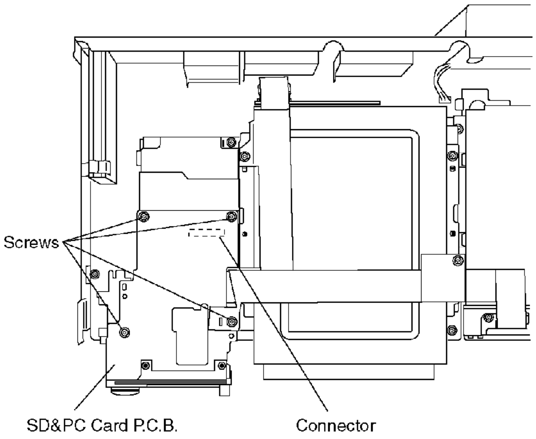

Screw
Front panel door

2. Remove the 2 screws with Earth plate and remove the Front (L) and DV Jack P.C.B.


Earth plate
Front (L) P.C.B.
DV Jack P.C.B.
Screws

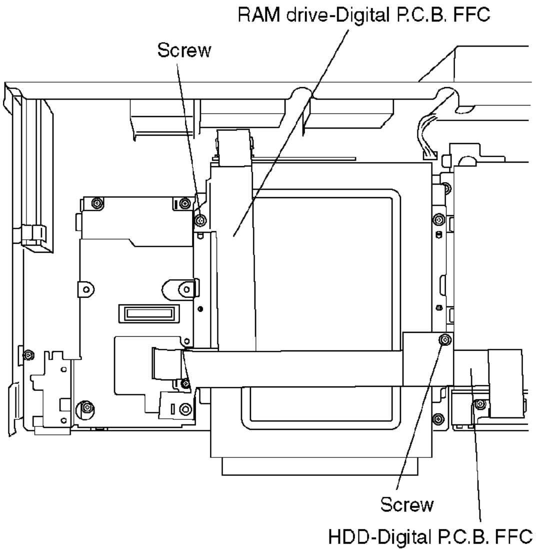
8.7. The SD & PC card P.C.B.

1. Remove the 4 screws.
2. Pull out the SD & PC card P.C.B. vertically.


Screws
SD&PC Card P.C.B.
Connector

8.8. The ATAPI and DRIVE-ATAPI P.C.B.

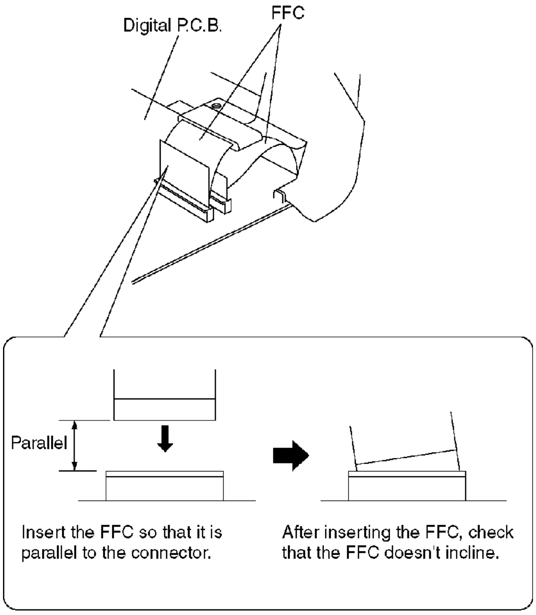
1. Remove the 2 screws.


RAM drive-Digital P.C.B. FFC
Screw
Screw
HDD-Digital P.C.B. FFC

2. Remove the FFC.

CAUTION:

When removing the FFC, pay attention as below.



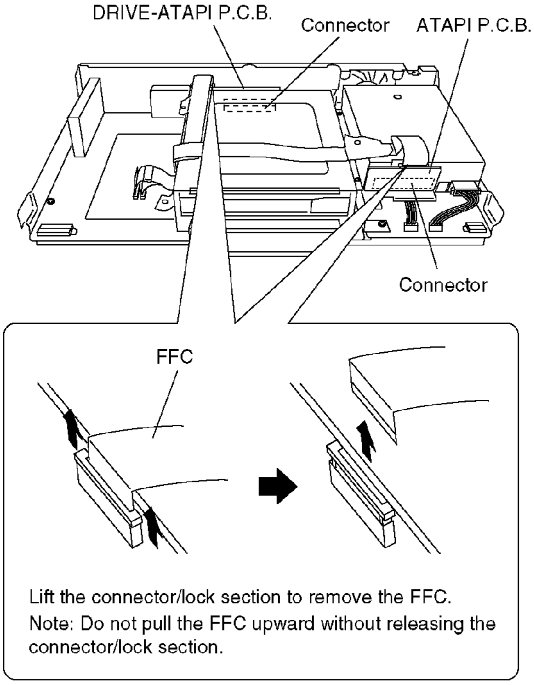
Insert the FFC so that it is parallel to the connector.

After inserting the FFC, check that the FFC doesn't incline.

3. Remove the 2 connectors and remove the FFC.

CAUTION:

When removing the FFC, pay attention as below.



Lift the connector/lock section to remove the FFC.

Note: Do not pull the FFC upward without releasing the connector/lock section.

8.9. The Digital P.C.B.

When replacing with Digital P.C.B., "UNFORMAT" indication is displayed and HDD must be formatted.

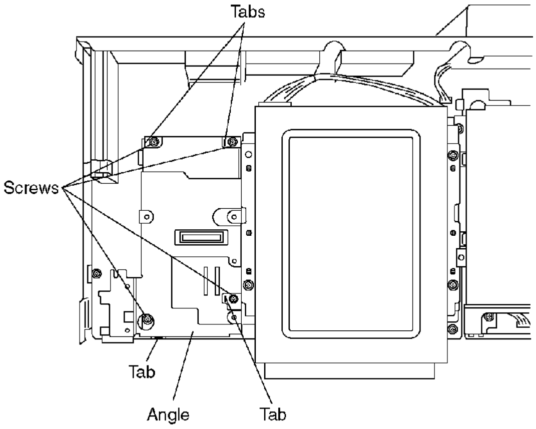
After that, programme in the HDD will be lost.

- How to format the HDD -

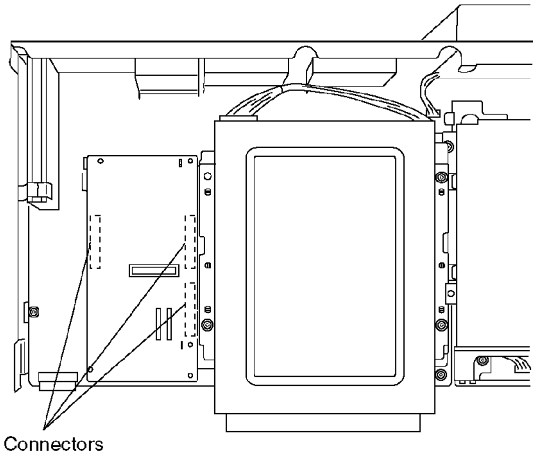
1) After "UNFORMAT" is displayed on the FL display, warning message for HDD format is appeared on the TV screen.

2) Select "YES" and press "ENTER" button on the remote controller, HDD will be formatted automatically.

1. **Remove the 4 screws and 4 tabs and remove the angle.**

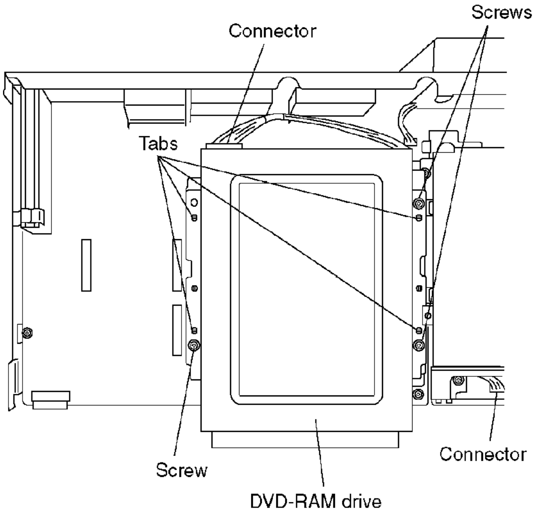

Tabs
Screws
Tab
Angle
Tab

2. **Pull out the Digital P.C.B. vertically with paying attention to 3 Connectors.**


Connectors

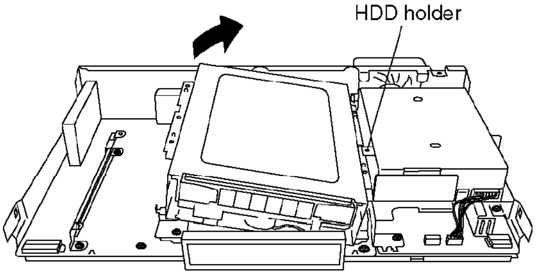
8.10. The DVD-RAM Drive

1. **Remove the 2 connectors.**
2. **Remove the 3 screws and remove the 4 Tabs.**


Connector
Screws
Tabs
Screw
DVD-RAM drive
Connector

CAUTION:

When replacing the DVD-RAM drive, remove the tab as below.



8.11. HDD

When replacing with HDD, "UNFORMAT" indication is displayed and HDD must be formatted.

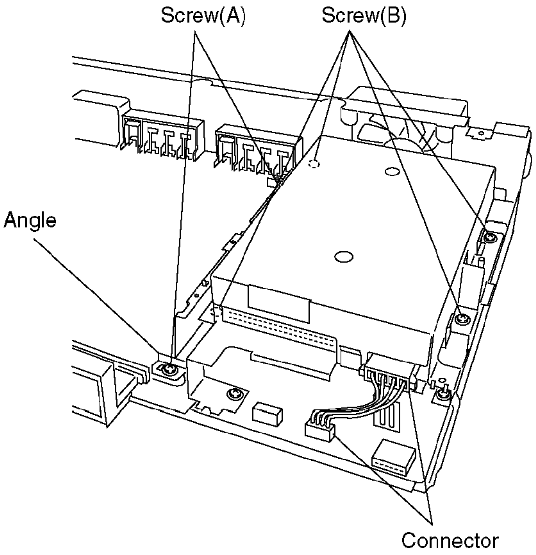
After that, **programme in the HDD will be lost.**

- How to format the HDD -

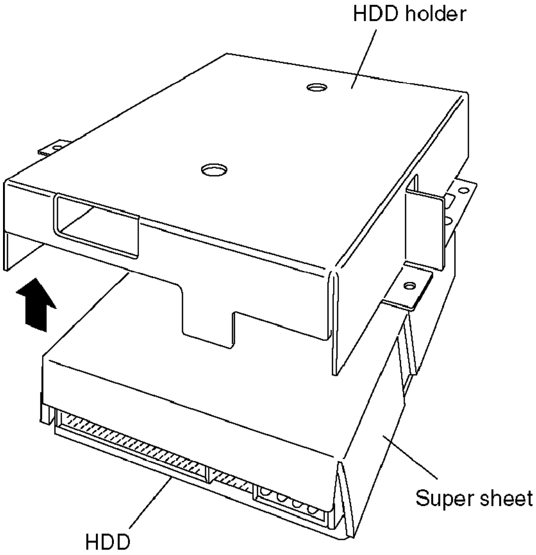
1) After "UNFORMAT" is displayed on the FL display, warning message for HDD format is appeared on the TV screen.

2) Select "YES" and press "ENTER" button on the remote controller, HDD will be formatted automatically.

1. Remove the screw (A) with angle and screw (B).


Screw(A)
Screw(B)
Angle
Connector

2. Pull out the HDD holder vertically from Super sheet and HDD.


HDD holder
Super sheet
HDD

Handling of HDD

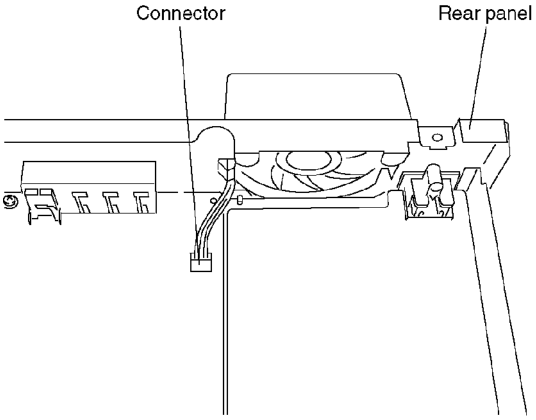
The following precautions should be taken when handling HDD.

1. **Never give an impact to HDD. (Even a drop from 1cm height can be a cause of HDD failure.**
2. **When placing HDD on a workbench, provide a mat on a bench for shock absorption and anti-static purposes.**
3. **When installing HDD, release it from your hands only after confirming that it is fully set on the chassis.**
4. **Avoid stacking up HDD.**
5. **HDD is unstable and easy to fall. Do not stand it on its side face.**
6. **When handling HDD, hold its side faces to avoid static hazard.**
7. **Do not place HDD on its wrapping bag after removal. (Prevention of static hazard**
8. **Use a screwdriver with low impact and anti-static features.**
9. **To replace HDD, remove the vertical short-circuit pin.**
(Keep the horizontal short-circuit pin in its place)

Note:
When replacing HDD, please make the rear jumper slave configuration.
(same configuration as HDD to exchange)

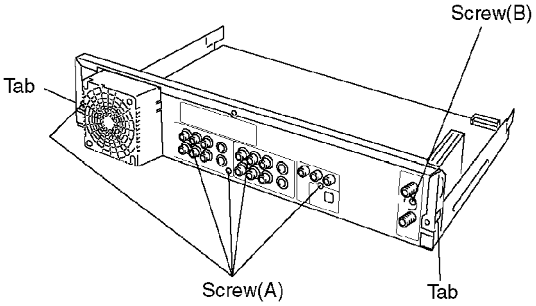
8.12. The Rear panel

1. Remove the Fan Motor connector.



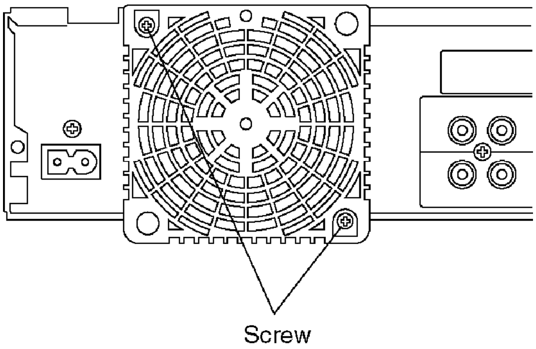
2. Remove the 5 screws (A) and 1screw (B).

3. Remove the 2 tabs and remove the Rear panel.

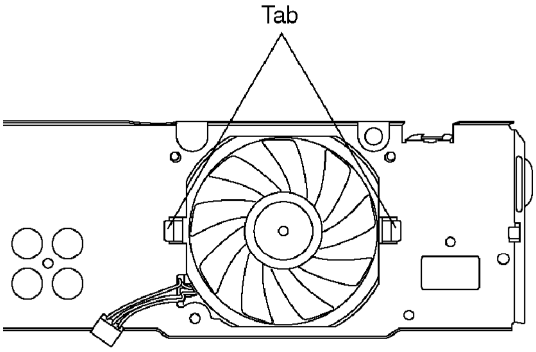

Screw(B)
Tab
Screw(A)
Tab

8.12.1. In case of removing Fan motor from Rear panel

1. Remove the 2 screws.



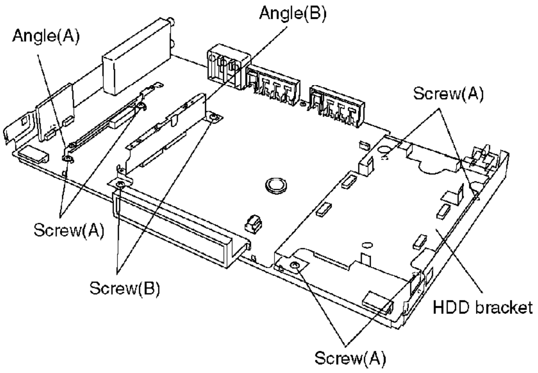
2. Remove the 2 tabs.



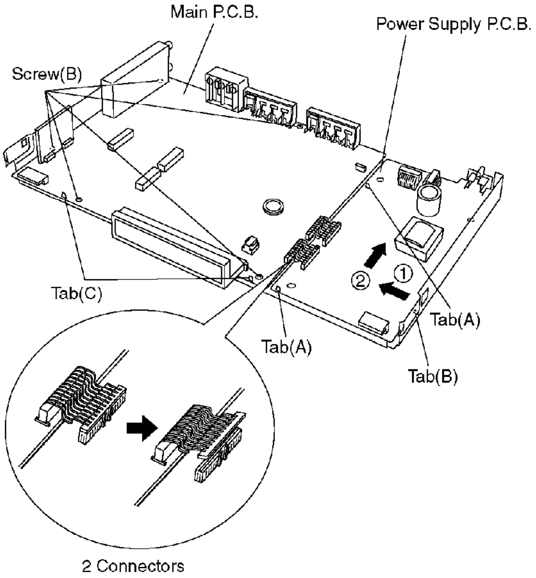
8.13. The Power Supply P.C.B. and Main P.C.B.

1. Remove the 6 screws (A) and 2 screws (B).

2. Remove the HDD bracket and angle (A) and angle (B).

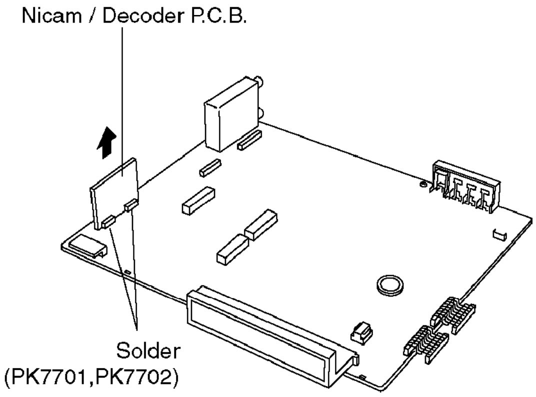

Angle(B)
Angle(A)
Screw(A)
Screw(A)
Screw(B)
HDD bracket
Screw(A)

3. **Remove the 2 connectors and 2 tabs (A).**
4. **Remove the Power Supply P.C.B and tab (B) , pull out it in the direction of the arrow.① to②.**
5. **Remove the 5 screws (B) and 2 tabs (C).**
6. **Remove the Main P.C.B.**


Main P.C.B.
Power Supply P.C.B.
Screw(B)
①
②
Tab(C)
Tab(A)
Tab(A)
Tab(B)
2 Connectors

8.14. The Nicam/ Decorder P.C.B.

1. **Remove the solders.**
2. **Pull out the Nicam/ Decorder P.C.B. in the direction of the arrow.**



9. Service Positions

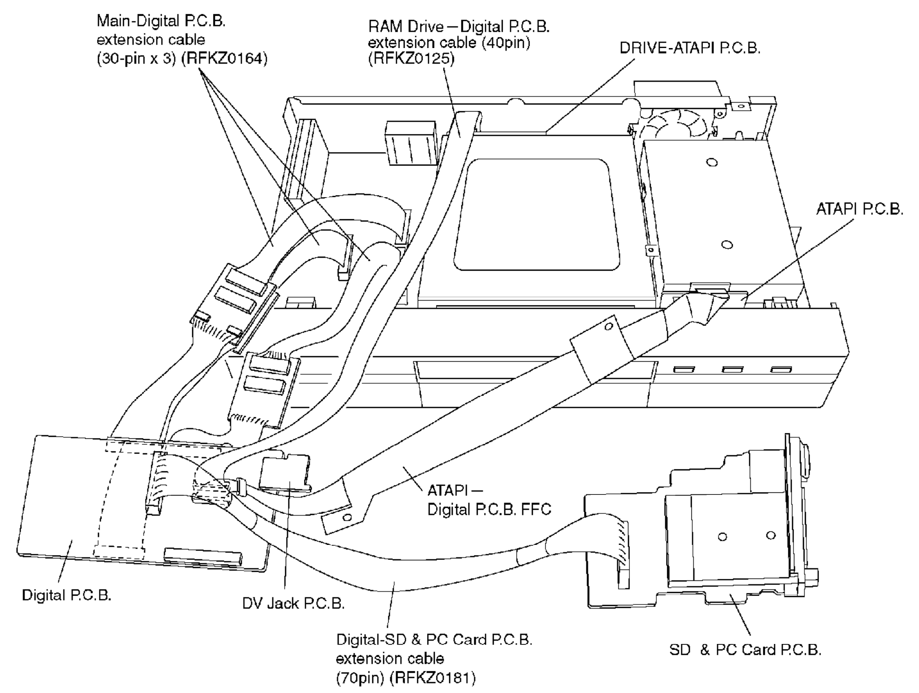
9.1. Checking procedure

Note:
For the disassembling procedure, see the section 8.

9.2. Checking the Digital P.C.B.

1. **Remove the Top Cover.**
2. **Remove the SD & PC Card P.C.B. and angle.**
3. **Remove the FFC (ATAPI - Digital P.C.B.).**
4. **Remove the FFC (DRIVE ATAPI - Digital P.C.B.)**
5. **Remove the Digital P.C.B.**
6. **Use the extension cable (RFKZ0164) to connect the Main P.C.B. and Digital P.C.B.**
7. **Connect the DRIVE ATAPI and Digital P.C.B. with extension cable (RFKZ0125).**
8. **Connect the ATAPI and Digital P.C.B.**
9. **Use the extension cable (RFKZ0181) to connect the Digital P.C.B. and SD & PC Card P.C.B.**
10. **Connect the Digital P.C.B. and DV Jack P.C.B.**

Service tools	
Extension Cable (SD&PC Card P.C.B. - Digital P.C.B.)	**RFKZ0181 (70pin)**
Extension Cable (Main P.C.B. - Digital P.C.B.)	**RFKZ0164 (30pin x 3)**
Extension Cable (RAM Drive - Digital P.C.B.)	**RFKZ0125 (40pin)**


Main-Digital P.C.B. extension cable (30-pin x 3) (RFKZ0164)
RAM Drive – Digital P.C.B. extension cable (40pin) (RFKZ0125)
DRIVE-ATAPI P.C.B.
ATAPI P.C.B.
ATAPI – Digital P.C.B. FFC
Digital P.C.B.
DV Jack P.C.B.
Digital-SD & PC Card P.C.B. extension cable (70pin) (RFKZ0181)
SD & PC Card P.C.B.

Point :
The switch of the Main / Digital circuit change is attached to this Digital P.C.B.'s extension cable.

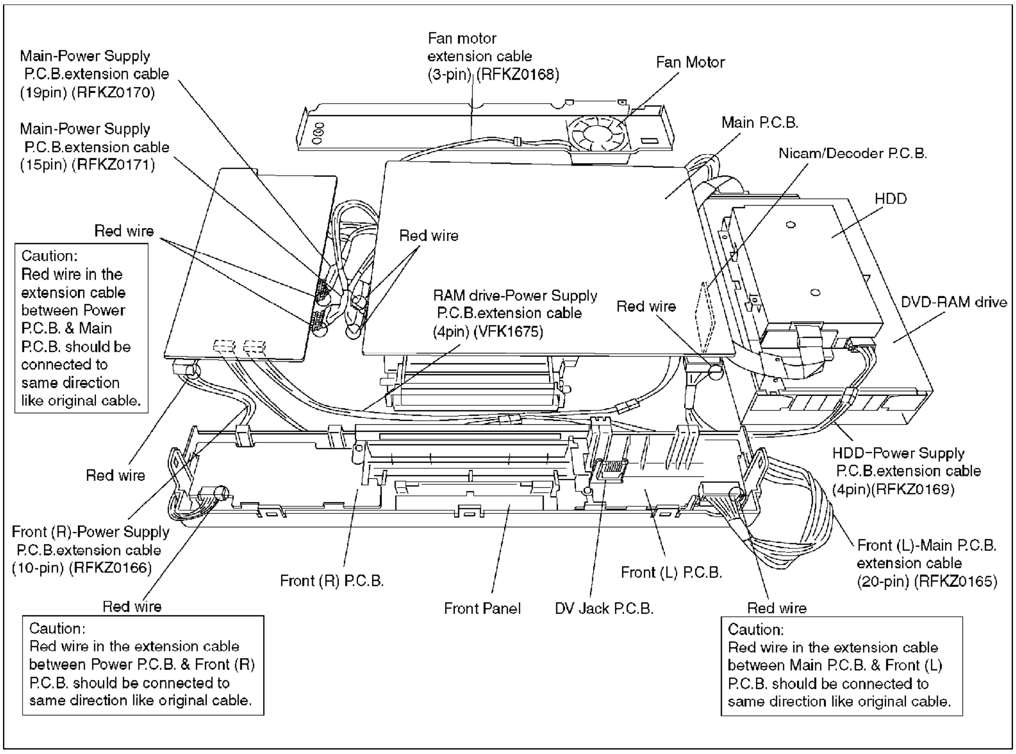
- In the check of a Digital P.C.B., a switch is "DIGITAL".
- In the check of a Main P.C.B., a switch is "MAIN".

9.3. Checking the Main P.C.B. and FRONT (L), (R) P.C.B.

1. **Remove the Top Cover.**
2. **Remove the Front Panel.**
3. **Remove the Rear Panel.**
4. **Remove the Power Supply P.C.B., Main P.C.B. and RAM Drive and HDD.**

5. Use the extension cable (RFKZ0168) to connect the Main P.C.B. and Fan Motor.
6. Use the extension cable (RFKZ0169) to connect the HDD and Power supply P.C.B.
7. Use the extension cable (VFK1675) to connect the RAM Drive and Power Supply P.C.B.
8. Use the extension cables (RFKZ0170, RFKZ0171) to connect the Main P.C.B. and Power Supply P.C.B.
9. Install to the service positions views.
10. Use the extension cable (RFKZ0165) to connect the Main P.C.B. and Front (L) P.C.B.
11. Use the extension cable (RFKZ0166) to connect the Power supply P.C.B. and Front (R) P.C.B.

Service tools	
Extension Cable (Main P.C.B. - Front (L) P.C.B.)	RFKZ0165 (20pin)
Extension Cable (Power supply P.C.B. - Main P.C.B.)	RFKZ0170 (19pin)
Extension Cable (Power supply P.C.B. - Main P.C.B.)	RFKZ0171 (15pin)
Extension Cable (Power supply P.C.B. - Front (R) P.C.B.)	RFKZ0166 (10pin)
Extension Cable (Power supply P.C.B. - HDD)	RFKZ0169 (4pin)
Extension Cable (Fan motor)	RFKZ0168 (3pin)


Main-Power Supply P.C.B.extension cable (19pin) (RFKZ0170)
Fan motor extension cable (3-pin) (RFKZ0168)
Fan Motor
Main-Power Supply P.C.B.extension cable (15pin) (RFKZ0171)
Main P.C.B.
Nicam/Decoder P.C.B.
HDD
Red wire
Red wire
RAM drive-Power Supply P.C.B.extension cable (4pin) (VFK1675)
Red wire
DVD-RAM drive
Red wire
HDD-Power Supply P.C.B.extension cable (4pin)(RFKZ0169)
Front (R)-Power Supply P.C.B.extension cable (10-pin) (RFKZ0166)
Front (L)-Main P.C.B. extension cable (20-pin) (RFKZ0165)
Front (R) P.C.B.
Front (L) P.C.B.
Red wire
Front Panel
DV Jack P.C.B.
Red wire

Caution:
Red wire in the extension cable between Power P.C.B. & Main P.C.B. should be connected to same direction like original cable.

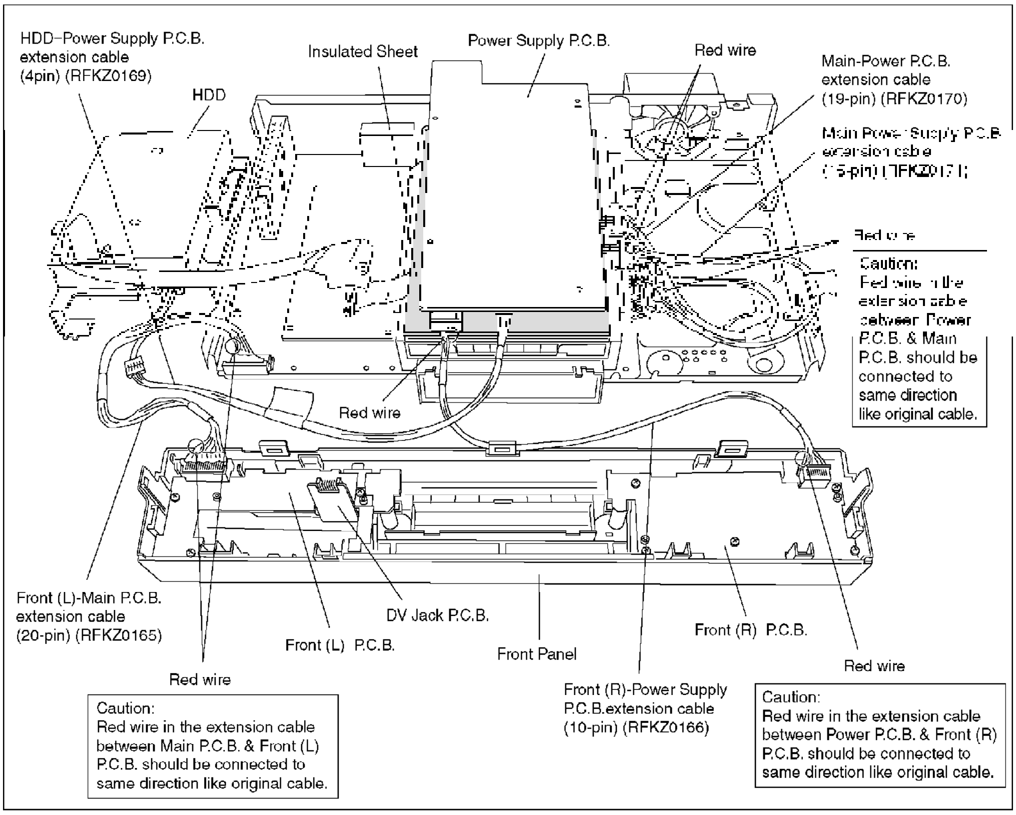
Caution:
Red wire in the extension cable between Power P.C.B. & Front (R) P.C.B. should be connected to same direction like original cable.

Caution:
Red wire in the extension cable between Main P.C.B. & Front (L) P.C.B. should be connected to same direction like original cable.

9.4. Checking the Power Supply P.C.B.

1. **Remove the Top Cover.**
2. **Remove the Front Panel.**
3. **Remove the screw which fixed Rear Panel and AC Inlet on the Power Supply P.C.B..**
4. **Remove the HDD with HDD bracket.**
5. **Use the extension cable (RFKZ0169) to connect the HDD and Power supply P.C.B.**
6. **Remove the Power Supply P.C.B., fix it on the insulation sheet.**
7. **Use the extension cables (RFKZ0170,RFKZ0171) to connect the Main P.C.B. and Power Supply P.C.B..**
8. **Use the extension cable (RFKZ0165) to connect the Main P.C.B. and Front (L) P.C.B.**
9. **Use the extension cable (RFKZ0166) to connect the Power Supply P.C.B. and Front (R) P.C.B.**

Service tools	
Extension Cable (Main P.C.B. - Front (L) P.C.B.)	**RFKZ0165 (20pin)**
Extension Cable (Power supply P.C.B. - Main P.C.B.)	**RFKZ0170 (19pin)**
Extension Cable (Power supply P.C.B. - Main P.C.B.)	**RFKZ0171 (15pin)**
Extension Cable (Power supply P.C.B. - Front (R) P.C.B.)	**RFKZ0166 (10pin)**
Extension Cable (Power supply P.C.B. - HDD)	**RFKZ0169 (4pin)**


HDD-Power Supply P.C.B. extension cable (4pin) (RFKZ0169)
HDD
Insulated Sheet
Power Supply P.C.B.
Red wire
Main-Power P.C.B. extension cable (19-pin) (RFKZ0170)
Main Power Supply P.C.B. extension cable (15-pin) (RFKZ0171)
Red wire
Red wire
Front (L)-Main P.C.B. extension cable (20-pin) (RFKZ0165)
DV Jack P.C.B.
Front (L) P.C.B.
Front Panel
Front (R) P.C.B.
Red wire
Red wire
Front (R)-Power Supply P.C.B.extension cable (10-pin) (RFKZ0166)

Caution:
Red wire in the extension cable between Power P.C.B. & Main P.C.B. should be connected to same direction like original cable.

Caution:
Red wire in the extension cable between Main P.C.B. & Front (L) P.C.B. should be connected to same direction like original cable.

Caution:
Red wire in the extension cable between Power P.C.B. & Front (R) P.C.B. should be connected to same direction like original cable.

9.5. Specifications for HDD Spin-up/Spin-down

Condition of HDD	Working Spec.	Indications	Ren
Spin-up Spin-down	*When Recording or Playback operation is not performed for over 30 minutes in condition that no disc in the RAM Drive and HDD is spinning, the HDD shifts to Spin -down.	*LED for HDD is ON for 5 seconds. *[LED SLEEP] is indicated on the FL display. *A message for shifting to Spin-down is displayed with OSD screen.	
Spin-down is kept	*Operations of CH UP/DOWN, changing the OSD and so on in EE mode is permitted. *Drive selection and Tray opening are permitted, but HDD is not shifted to Spin-up. *Programmingof the Timer recording is permitted, but HDD does not shifts to Spin-up.	*Center circle (Red + White) is ON when the drive is HDD side. *[HDD SLEEP] is indicated on the FL display all the time. *HDD LED is ON.	
Spin-down Spin-up	The HDD shifts to Spin-up by operations shown below. *When the [HDD] key is pressed. *When the playback operation (PLAY, DIRECT NAVIGATOR, PLAY LIST, MARKER) is performed. *Whenthe recording operation (REC, FLEXIBLE REC, PC connection, DV AUTO REC) is performed. *When FUNCTION key is pressed. *When the Tray is closed.	HDD LED is on for about 5 seconds until the HDD starts to spin.	Acceptati [REC] ke Spin-dow condition permitte

10. List of Various Mode

10.1. List of Various Buttons

Each buttons name	Functions
DVD (Power)	To turn power on or off on the DVD.
TV (Power)	To turn power on or off on the TV.
DVD-TV	To select DVD or TV operation.
HDD	To select the operation for HDD.
DVD	To select the operation for DVD.
VIDEO Plus+ (Show View/G code)	To set timer program using G code/ Show View/ Video Plus+
OPEN/ CLOSE	To open and close the disc tray.
INPUT SELECT	To select the input source.
TV/ VIDEO	To select TV or VIDEO.
Numeric buttons (10key)	To put each number for selecting each function.
CANCEL	To cancel maker.
SKIP (Reverse)/ (Forward)	To skip chapter or marker position for reverse of forward direction.
STOP	To stop the recording or playback.
PAUSE	To still for playback or pause for recording.
DIRECT NAVIGATOR/ TOP MENU	DIRECT NAVIGATOR To display menu for recorded program.
	<TOP MENU> (For only VCD or DVD-Video) To display top menu on the VCD or DVD-Video.
Cursor buttons	To move cursor position to select each menu.
ENTER	After selecting each menu with cursor buttons, press this button and enter.
FUNCTIONS	To display function menu.
PROG/ CHECK	To display timer porgram menu.
REC	To set the recording.
CH UP/ DOWN	To select channel on the TV or DVD.
VOLUME UP/ DOWN	To control volume on the TV.

Each buttons name	Functions
SLOW/ SEARCH	**<SLOW>** **To set the slow mode during still.**
	<SEARCH> **To set the cue or review during playback.**
PLAY/ X1.3	**<PLAY>** **To set playing back.**
	<X1.3> **To set the times 1.3 speed for playback by keep pressing playback button for more than 1 second.**
PLAY LIST/ MENU	**<PLAY LIST>** **To display play list.**
	<MENU> **(For only VCD or DVD-Video) To display menu on the VCD or DVD-Video.**
RETURN	**To return to previous condition.**
FRAME (Reverse/ Forward)	**To set frame advance.**
CM SKIP	**To skip CM.**
TIME SLIP	**(HDD, RAM, DVD-R) To playback program being recorded by setting time duration for each 1minute during recording.**
	(HDD, RAM, DVD-R) To playback recorded program by setting time duration for each 1minute. *During recording or playback, playback 30seconds previous by pressing the button.
REC MODE	**To set recording speed.**
STATUS	**To display product status, time status & present bit-rate.**
ERASE	**To erase recorded program or playlist during playback.**
AUDIO	**To select audio with tuner input or playback sound.**

Each buttons name	Functions
POSITION MEMORY	**To memorize STOP position for playing back again.** *** STOP position is erased by turning power off and openning tray.**
MARKER	**(DVD-RAM/-R)To put marker for making chapter.**
DISPLAY	**To select disc,playback,picture & sound status.**
SETUP	**To display SETUP menu.**
DUBBING	**To dub recorded program at HDD to DVD-RAM/-R during playback.**
EXT LINK	**To set EXT LINK mode to record automatically by detecting signal from external equipment.**

10.2. Special modes at a glance

10.2.1. Service modes

Service mode setting: While the power is off, press TIME SLIP, STOP and OPEN / CLOSE simultaneously for five seconds.

Item		FL display	Key operation
Mode name	**Description**		**Remote controller ke**
Clear item	**Items 1-20 are cleared.**	SERVICE MODE	**[0] [0] while in service mod**
Error code display	**FL display of the last error code held by timer**	F00 FL display of the error code（U/H/F)	**[0] [1] while in service mod**

Item		FL display	Key operation
Mode name	Description		Remote controller ke
ROM version display	Region code, main, timer and drive firmware versions are displayed on screen and FL tube.	REGION* MAIN ****** TIMER ***** DRIVE **** * Version display	[0] [2] while in service mod
White picture output	White picture output from AV decoder White picture (Chroma: 100%) Switching enabled by subcommand “I/P switch”	Initialization mode (Interlace) WHIT I	[1] [1] while in service m
		Progressive/ Interlace switched. WHIT P	[1] [4] while in white pictur mode *I ↔ P Toggle switched.
Magenta picture output	Magenta picture output from AV decoder Magenta picture (Chroma: 100%) Switching enabled by subcommand “I/P switch”	Initialization mode (Interlace) MAGE I	[1] [2] while in service m
		Progressive/ Interlace switched MAGE P	[1] [4] while in Magenta pic mode *I ↔ P Toggle switched.

Item		FL display	Key operation
Mode name	Description		Remote controller ke
RTSC return XP (A& V)	Disc recording of L1 input Encoded and decoded for external output without playback. REC mode is XP.	Initialization mode (EE2/ Interlace/ XP/ Audio 48kHz) EE2 I XP 48	[1] [3] while in service m
		Progressive/ Interlace switched. EE2 P XP 48	[1] [4] while in RTSC returr mode *I ←→ P Toggle switched.
		Audio 44.1kHz/ 48kHz switch EE2 I XP 44	[2] [4] while in RTSC retur mode *48k ←→ 44.1k Toggl switched.
I/P switching	“Interlace” and “Progressive” are switched. Initial setting is “Interlace”. (This command is effective when performing 14 and 15.)	Initialization mode SERVICE I Progressive SERVICE P	[1] [4] while in service m *I ←→ P Toggle switch
Audio Mute (XTMUTE)	Check whether mute is applied normally by the microcomputer timer.	TIMER MUTE	[2] [1] while in service m
Audio Mute (XDMUTE)	Check whether is mute applied normally by the Digital P.C.B. (GLUE IC).	MAIN MUTE	[2] [2] while in service m

Item		FL display	Key operation
Mode name	Description		Remote controller ke
Audio pattern output	The audio pattern stored in the internal memory is output (1kHz-18dB).	Initialization mode (Interlace) AUD IO 48	[2] [3] while in service m
		Audio 44.1kHz / 48kHz switched. AUDIO 44	[2] [4] while in white pictur mode *48k ←→ 44k Toggle switc
HDD READ inspection	Perform a complete read inspection of the HDD.	When the HDD is OK HDD OK If the HDD is negative, the OK section will read [NG].	[3] [1] in the service mode. *When canceling the checl mode while checking, do “forced power-off”. Method: Press the “POWER” buttor unit more than 10 seconds
Laser use time display	To check laser use time of drive	LASER**** *(*)displays the time (in hours). *The last working time is incremented in both the DVD/CD Play and Record modes.	[4] [1] while in service m
RAM drive last error	RAM drive error code display. *For details about the drive error code, refer to the manual for the specific RAM drive.	** **** ** ** ** (1) (2) (3) (4) (5) *(1)Sense key *(2)Additional sense code *(3)Host detail *(4)Access detail *(5)Mecha detail *This information is saved to EEPROM on the RAM drive.	[4] [2] while in service m
Laser error count	The number of times that a laser error has occured due to a defective disc or defective drive is counted and displayed.	LASERERR* *(*)is the number of times a laser error occured. *This information is saved to EEPROM on the RAM drive.	[4] [3] while in service m

Item		FL display	Key operation
Mode name	Description		Remote controller ke
Factors which cause drive error	**The disc condition is displayed when an error occures.**	INFO ** ** ** (1) (2) * (1)Error disc type. * (2)Status of error disc. * The details can be checked using the separate table. * This information is saved to EEPROM on the RAM drive.	**[4] [4] while in service m**
Disc manufacture ID	**Display the manufacture's ID for a disc on which a drive error has occured.**	************ The display example can be checked using the separate table.	**[4] [5] while in service m**
Illumination of all FL /LEDs	**All FL and LEDs are lit up.**	Illumination of all FL/LED's	**[5] [1] while in service m**
S1 signal output	**Forcibly superimpose the S1 signal (5V DC) on the EE chroma signal, and check the output on the S terminal.**	S1 OUTPUT	**[5] [2] while in service m**
S2 signal output	**Forcibly superimpose the S2 signal (2.2V DC) on the EE chroma signal, and check the output on the S terminal.**	S2 OUTPUT	**[5] [3] while in service m**
Front connection inspection	**Press all the main unit's buttons and check the connection with the Main P.C.B..**	000Γ 12 (1) (2) *(1)Each time a key is pressed, the grid on the FL display will grow larger. *(2)Total number of main unit buttons.	**[5] [4] while in service m**
Tray OPEN/CLOSE	**The RAM drive tray is opened and closed repeatedly.**	CYCLE **** *FL display of the CYCLE count out.	**[9] [1] while in service mod** ***Canceling the setting is to** **"forced power-off."** **Method:** **Press the "POWER" buttor** **unit more than10 seconds.**

Item		FL display	Key operation
Mode name	Description		Remote controller ke
Error code initialization	Initialization of the last error code held by timer (Write in F00)	ERROR INIT	[9] [8] while in service m
Main unit initialization	All parameters (including timer) are initiaized to the factory setting.	FACT INIT	[9] [9] while in service m
PC card WRITE check	Check WRITE function using the media and PC card adaptor with PC card slot.	When the WRITE check is OK. PCCD SUCCESS When the WRITE check is NG. PCCD ERROR *Note:Theimage stored in the media is erased.	Insert PC card adaptor witl media to PC card slot, and [7] [1] in service mode. *Insert PC card adaptor wit media while the power is o *Check for [CARD] onthe F display and go on the proc
PC card READ check	Check READ function using the media with image and PC card adaptor with PC card slot.	When the READ check is OK. Image stored in the media is displayed on the monitor TV. JPEG TEST When the WRITE check is NG. JPEG TEST NG	Insert PC card adaptor witl media to PC card slot, and [7] [2] in service mode. *Insert PC card adaptor wit media while the power is o *Check for [CARD] onthe F display and go on the proc

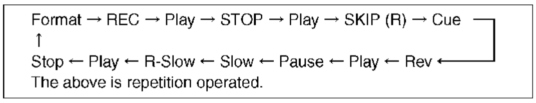
Item		FL display	Key operation
Mode name	Description		Remote controller ke
SD card WRITE check	Check SD card WRITE function with SD card slot.	When the WRITE check is OK. SDCD SUCCESS When the WRITE check is NG. SDCD ERROR *Note: Theimage stored in the SD card is erased.	Insert SD card to SD card s and press [7] [4] in service *Insert SD card while the p is off. *Check for [CARD SD] on t display and go on the proc

10.2.2. Other special modes

Item		FL display	Key operation
Mode name	Description		Front key
TEST Mode	*All the main unit’s parameters are initialized. *Since a drive region is not specified [0] on replacement drives, it is specified when the drive is replaced.	TEST AV1	When the power is off, pres SKIP(R), TIME SLIP and OP CLOSE simultaneously for seconds.
Rating password	The audiovisual level setting password is canceled.	---	Open the tray, and press SKIP(R) and SKIP(F) simultaneously for five sec

Item		FL display	Key operation
Mode name	**Description**		**Front key**
Demonstration lock/ unlock	**Ejection of the disc is prohibited.**	LOCK ***When lock the tray: "LOCK" is displayed for 3 seconds.** **When unlock the tray: "UNLOCK" is displayed for 3 seconds.** **Pressthe OPEN/CLOSE key while the tray is locked, "LOCK" is displayed for 3 seconds.**	**With the power-on, press and POWER simultaneousl five seconds.**
Forced disc eject	**Removing a disc that cannnot be ejected.**	---	**When the power is off, pre STOP and CH_UP simultaneously for five sec**
Progressive initialization	**The progressive setting is initialized.**	---	**In STOP(EE) mode, press and CH DOWN simultaneo for five seconds.**
Aging	**See the * Aging Description shown below.**	---	**When the power is off, pre TIMEWARP + OPEN / CLO and CH DOWN simultaneo for five seconds.**
Forcible power-off	**When POWER is in ON of unit, making unit to POWER OFF forcely.**	---	**Press the "POWER" butto unit more than 10 seconds**
Child lock/Release	**Rock or release the "Child Lock".**	X HOLD	**Press ENTER and RETUR remote controller simultaneously until [X HO displayed or disappears.**
NTSC/PAL system select	**To switch PAL/NTSC alternately.**	---	**Press STOP and OPEN/CL simultaneously for five sec on the EE mode (power is**

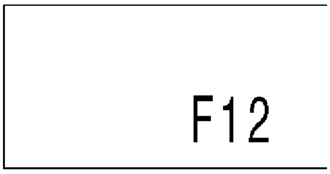
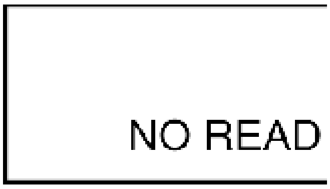
*** Aging Description**


Format → REC → Play → STOP → Play → SKIP (R) → Cue
Stop ← Play ← R-Slow ← Slow ← Pause ← Play ← Rev

The above is repetition operated.

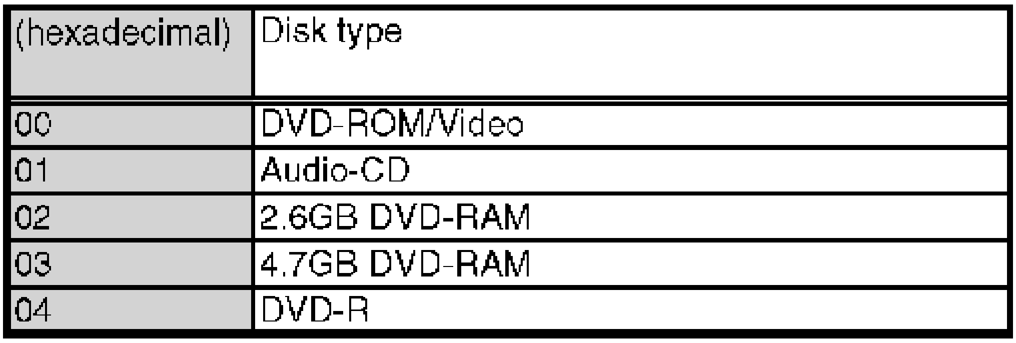
10.2.3. List of the U/H/F Error Displays

Display	Diagnosis	Description	FL display
U12	Remote control mode error	Display appears when main unit and remote controller modes are not matched.	CHK RE
U14	Abnormal inner temperature detected	Display appears when the drive temperature exceeds 71Åé. Main unit is powered off forcibly. For 30 minutes after this, all key entries are disabled. (Fan motor operates at the highest speedforthe first 5 minutes. For the remaining 25 minutes, fan motor is also stopped.) The event is saved in memory as well.	U14 Displayed from the time o detection and while key e are disabled after power-c minutes).
U99	Hang-up	Displayed when microprocessor has hang-up.	U99 Remains displayed.
H01	Inoperative fan motor	Display appears when inoperative fan motor is detected after powered on.	H01 Remains displayed.
F00	No error information	Initial setting for error code in memory (Initialization is possible with error code initialization and main unit initialization.)	F00 Remains displayed.
F01	Drive hardware error	Display appears when drive unit error is detected. The event is saved in memory.	F01 Remains displayed.

Display	Diagnosis	Description	FL display
F12	Initialization error when main microprocessor is started up for program recording	Display appears when initialization error is detected after starting up main microprocessor for program recording. The event is saved in memory.	 Remains displayed.
UNSUPPORT	Unsupported disc error	*A disc an unsupported format was played, even though the drive starts normally. *The data format is not supported even though the media type is supported.	
NO READ	Disc read error	*A disc is flawed or dirty. *A poor quality failed to start. *The track information could not be read.	
HARD ERR	Drive error	The drive detected a hard error.	
RECOVER	Restoration operation	Since the power cord fell out during a power failure or operation, it is under restoration operation. *It will OK, if a display disappears automatically. If a display does not disappear, thereis the possibility that defective Digital P.C.B. / RAM drive.	

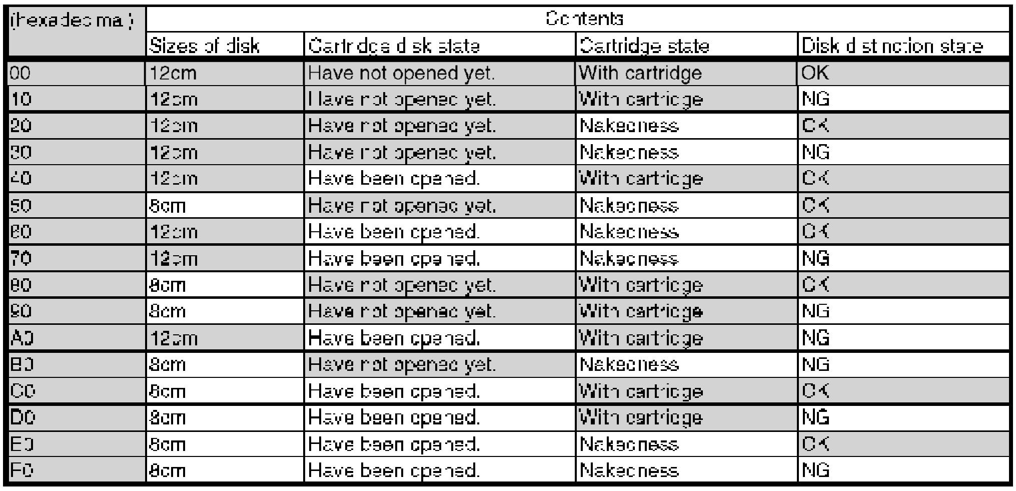
10.3. The information table of an error generating disk

10.3.1. Error generating disk type



(hexadecimal)	Disk type
00	DVD-ROM/Video
01	Audio-CD
02	2.6GB DVD-RAM
03	4.7GB DVD-RAM
04	DVD-R

10.3.2. Error generating disk state



(hexadecimal)	Contents			
	Sizes of disk	Cartridge disk state	Cartridge state	Disk distinction state
00	12cm	Have not opened yet.	With cartridge	OK
10	12cm	Have not opened yet.	With cartridge	NG
20	12cm	Have not opened yet.	Nakedness	OK
30	12cm	Have not opened yet.	Nakedness	NG
40	12cm	Have been opened.	With cartridge	OK
50	8cm	Have not opened yet.	Nakedness	OK
60	12cm	Have been opened.	Nakedness	OK
70	12cm	Have been opened.	Nakedness	NG
80	8cm	Have not opened yet.	With cartridge	OK
90	8cm	Have not opened yet.	With cartridge	NG
A0	12cm	Have been opened.	With cartridge	NG
B0	8cm	Have not opened yet.	Nakedness	NG
C0	8cm	Have been opened.	With cartridge	OK
D0	8cm	Have been opened.	With cartridge	NG
E0	8cm	Have been opened.	Nakedness	OK
F0	8cm	Have been opened.	Nakedness	NG

10.3.3. Disk production maker ID

No	FL displays	Disk type / Maker name
1	MEI*****	DVD-R by Panasonic
2	PVC*****	DVD-R by Pioneer
3	MCC*****	DVD-R by MITSUBISHI
4	TDK*****	DVD-R by TDK
5	MXL*****	DVD-R by Maxell
6	MCI*****	DVD-R by MITUI CHEMICALS
7	MATSUSHITA	DVD-RAM by Panasonic
8	MXL*	DVD-RAM by Maxell

*** Since a display is arbitrarily set up by the disk producer side, the above-mentioned display may be changed.**

Please make it reference as an example of a display.

11. Abbreviations

INITIAL/LOGO		ABBREVIATIONS
A	A0~UP	ADDRESS
	ACLK	AUDIO CLOCK
	AD0~UP	ADDRESS BUS
	ADATA	AUDIO PES PACKET DATA
	ALE	ADDRESS LATCH ENABLE
	AMUTE	AUDIO MUTE
	AREQ	AUDIO PES PACKET REQUEST
	ARF	AUDIO RF
	ASI	SERVO AMP INVERTED INPUT
	ASO	SERVO AMPOUTPUT
	ASYNC	AUDIO WORD DISTINCTION SYNC
B	BCK	BIT CLOCK (PCM)
	BCKIN	BIT CLOCK INPUT
	BDO	BLACK DROP OUT
	BLKCK	SUB CODE BLOCK CLOCK
	BOTTOM	CAP. FOR BOTTOM HOLD
	BYP	BYPATH
	BYTCK	BYTE CLOCK
C	CAV	CONSTANT ANGULAR VELOCITY
	CBDO	CAP. BLACK DROP OUT
	CD	COMPACT DISC
	CDSCK	CD SERIAL DATA CLOCK
	CDSRDATA	CD SERIAL DATA
	CDRF	CD RF (EFM) SIGNAL
	CDV	COMPACT DISC-VIDEO
	CHNDATA	CHANNEL DATA
	CKSL	SYSTEM CLOCKSELECT
	CLV	CONSTANT LINEAR VELOCITY
	COFTR	CAP. OFF TRACK
	CPA	CPU ADDRESS
	CPCS	CPU CHIP SELECT
	CPDT	CPU DATA
	CPUADR	CPU ADDRESS LATCH
	CPUADT	CPU ADDRESS DATA BUS
	CPUIRQ	CPU INTERRUPT REQUEST
	CPRD	CPU READ ENABLE
	CPWR	CPU WRITE ENABLE
	CS	CHIPSELECT
	CSYNCIN	COMPOSITE SYNC IN
	CSYNCOUT	COMPOSITE SYNC OUT

INITIAL/LOGO		ABBREVIATIONS
D	DACCK	D/A CONVERTER CLOCK
	DEEMP	DEEMPHASIS BIT ON/OFF
	DEMPH	DEEMPHASIS SWITCHING
	DIG0~UP	FL DIGIT OUTPUT
	DIN	DATA INPUT
	DMSRCK	DM SERIAL DATA READ CLOCK
	DMUTE	DIGITAL MUTE CONTROL
	DO	DROP OUT
	DOUT0~UP	DATAOUTPUT
	DRF	DATA SLICE RF (BIAS)
	DRPOUT	DROP OUT SIGNAL
	DREQ	DATA REQUEST
	DRESP	DATA RESPONSE
	DSC	DIGITAL SERVO CONTROLLER
	DSLF	DATA SLICE LOOP FILTER
	DVD	DIGITAL VIDEO DISC

INITIAL/LOGO		ABBREVIATIONS
E	EC	ERROR TORQUE CONTROL
	ECR	ERROR TORQUE CONTROL REFERENCE
	ENCSEL	ENCODER SELECT
	ETMCLK	EXTERNAL M CLOCK (81MHz/ 40.5MHz)
	ETSCLK	EXTERNAL S CLOCK (54MHz)
F	FBAL	FOCUS BALANCE
	FCLK	FRAME CLOCK
	FE	FOCUS ERROR
	FFI	FOCUS ERROR AMP INVERTED INPUT
	FEO	FOCUS ERROR AMP OUTPUT
	FG	FREQUENCY GENERATOR
	FSC	FREQUENCY SUB CARRIER
	FSCK	FS (384 OVER SAMPLING) CLOCK
G	GND	COMMON GROUNDING (EARTH)
H	HA0~UP	HOST ADDRESS
	HD0~UP	HOST DATA
	HINT	HOST INTERRUPT
	HRXW	HOST READ/WRITE

INITIAL/LOGO		ABBREVIATIONS
I	IECOUT	IEC958 FORMAT DATA OUTPUT
	IPFRAG	INTERPOLATION FLAG
	IREF	I (CURRENT) REFERENCE
	ISEL	INTERFACE MODE SELECT
L	LDON	LASER DIODE CONTROL
	LPC	LASER POWER CONTROL
	LRCK	L CH/R CH DISTINCTION CLOCK
M	MA0~UP	MEMORY ADDRESS
	MCK	MEMORY CLOCK
	MCKI	MEMORY CLOCK INPUT
	MCLK	MEMORY SERIAL COMMAND CLOCK
	MDATA	MEMORY SERIAL COMMAND DATA
	MDQ0~UP	MEMORY DATA INPUT/OUTPUT
	MDQM	MEMORY DATA I/O MASK
	MLD	MEMORYSERIAL COMMAND LOAD
	MPEG	MOVING PICTURE EXPERTS GROUP
O	ODC	OPTICAL DISC CONTROLLER
	OFTR	OFF TRACKING
	OSCI	OSCILLATOR INPUT
	OSCO	OSCILLATOR OUTPUT
	OSD	ON SCREEN DISPLAY
P	P1~UP	PORT
	PCD	CD TRACKING PHASE DIFFERENCE
	PCK	PLL CLOCK
	PDVD	DVD TRACKING PHASE DIFFERENCE
	PEAK	CAP. FOR PEAK HOLD
	PLLCLK /	CHANNEL PLL CLOCK
	PLLOK	PLL LOCK
	PWMCTL	PWM OUTPUT CONTROL
	PWMDA	PULSE WAVE MOTOR DRIVEA
	PWMOA, B	PULSE WAVE MOTOR OUT A, B

INITIAL/LOGO		ABBREVIATIONS
R	RE	READ ENABLE
	RFENV	RF ENVELOPE
	RFO	RF PHASE DIFFERENCE OUTPUT
	RS	(CD-ROM) REGISTER SELECT
	RSEL	RF POLARITY SELECT
	RST	RESET
	RSV	RESERVE
S	SBI0, 1	SERIAL DATA INPUT
	SBO0	SERIAL DATA OUTPUT
	SBT0, 1	SERIAL CLOCK
	SCK	SERIAL DATA CLOCK
	SCKR	AUDIO SERIAL CLOCK RECEIVER
	SCL	SERIAL CLOCK
	SCLK	SERIAL CLOCK
	SDA	SERIAL DATA
	SEG0~UP	FL SEGMENT OUTPUT
	SELCLK	SELECTCLOCK
	SEN	SERIAL PORT ENABLE
	SIN1, 2	SERIAL DATA IN
	SOUT1, 2	SERIAL DATA OUT
	SPDI	SERIAL PORT DATA INPUT
	SPDO	SERIAL PORT DATA OUTPUT
	SPEN	SERIAL PORT R/W ENABLE
	SPRCLK	SERIAL PORT READ CLOCK
	SPWCLK	SERIAL PORT WRITE CLOCK
	SQCK	SUB CODE Q CLOCK
	SQCX	SUBCODE Q DATA READ CLOCK
	SRDATA	SERIAL DATA
	SRMADR	SRAM ADDRESS BUS
	SRMDT0~7	SRAM DATA BUS 0~7
	SS	START/STOP
	STAT	STATUS
	STCLK	STREAM DATA CLOCK
	STD0~UP	STREAM DATA
	STENABLE	STREAM DATA INPUT ENABLE
	STSEL	STREAM DATA POLARITY SELECT
	STVALID	STREAM DATAVALIDITY
	SUBC	SUB CODE SERIAL
	SBCK	SUB CODE CLOCK
	SUBQ	SUB CODE Q DATA
	SYSCLK	

	SYSCLK	SUB CODE Q DATA SYSTEM CLOCK

INITIAL/LOGO		ABBREVIATIONS
T	TE	TRACKING ERROR
	TIBAL	BALANCE CONTROL
	TID	BALANCE OUTPUT 1
	TIN	BALANCE INPUT
	TIP	BALANCE INPUT
	TIS	BALANCE OUTPUT 2
	TPSN	OP AMP INPUT
	TPSO	OP AMP OUTPUT
	TPSP	OP AMP INVERTED INPUT
	TRCRS	TRACK CROSSSIGNAL
	TRON	TRACKING ON
	TRSON	TRAVERSE SERVO ON

INITIAL/LOGO		ABBREVIATIONS
V	VBLANK	V BLANKING
	VCC	COLLECTOR POWER SUPPLY VOLTAGE
	VCDCONT	VIDEO CD CONTROL (TRACKING BALANCE)
	VDD	DRAIN POWER SUPPLY VOLTAGE
	VFB	VIDEO FEED BACK
	VREF	VOLTAGE REFERENCE
	VSS	SOURCE POWER SUPPLYVOLTAGE
W	WAIT	BUS CYCLE WAIT
	WDCK	WORD CLOCK
	WEH	WRITE ENABLE HIGH
	WSR	WORD SELECT RECEIVER

INITIAL/LOGO		ABBREVIATIONS
X	X	X' TAL
	XALE	X ADDRESS LATCH ENABLE
	XAREQ	X AUDIO DATA REQUEST
	XCDROM	X CD ROM CHIP SELECT
	XCS	X CHIP SELECT
	XCSYNC	X COMPOSITE SYNC
	XDS	X DATA STROBE
	XHSYNCO	X HORIZONTAL SYNC OUTPUT
	XHINT	XH INTERRUPTREQUEST
	XI	X' TAL OSCILLATOR INPUT
	XINT	X INTERRUPT
	XMW	X MEMORY WRITE ENABLE
	XO	X' TAL OSCILLATOR OUTPUT
	XRE	X READ ENABLE
	XSRMCE	X SRAM CHIP ENABLE
	XSRMOE	X SRAM OUTPUT ENABLE
	XSRMWE	X SRAM WRITE ENABLE
	XVCS	X V-DEC CHIPSELECT
	XVDS	X V-DEC CONTROL BUS STROBE
	XVSYNCO	X VERTICAL SYNC OUTPUT

12. Voltage and Waveform Chart

Note)

- Indicated voltage values are the standard values for the unit measured by the DC electronic circuit tester (high-impedance) with the chassis taken as standard.
  Therefore, there may exist some errors in the voltage values, depending on the internal impedance of the DC circuit tester.

12.1. Power Supply P.C.B.

12.2. Main P.C.B.

12.3. Nicam/Decorder P.C.B.

12.4. Front (R) P.C.B.

12.5. PS9001, PS9002, PS9003 Connectors

12.6. PP9701, PP9702 Waveform

13. Block Diagram

13.1. Power Supply Block Diagram

13.1.1. Integrated Circuit Power Supply Chart (PSC 1 - PSC 19)

13.2. Analog Video Block Diagram

13.3. Analog Audio Block Diagram

13.4. Timer Block Diagram

13.5. Digital Section Block Diagram

13.5.1. Digital Video Section Block Diagram

13.5.2. Digital Audio Section Block Diagram

13.5.3. Digital Block IC Pin Terminal Chart (TC1-TC37)

14. Schematic Diagram

14.1. Interconnection Schematic Diagram

14.2. Main Power Supply Schematic Diagram

14.3. Sub Power Supply Schematic Diagram (P) (Main P.C.B. 1/5)

14.4. Main Net Schematic Diagram (M) (Main P.C.B. 2/5)

14.5. Video I/O Schematic Diagram (V) (Main P.C.B. 3/5)

14.6. Audio Schematic Diagram (A) (Main P.C.B. 4/5)

14.7. Timer Schematic Diagram (T) (Main P.C.B. 5/5)

14.8. Digital Net Schematic Diagram (DN) (Digital P.C.B. 1/9)

14.9. AV Input Schematic Diagram (AI) (Digital P.C.B. 2/9)

14.10. AV Encoder Schematic Diagram (EN) (Digital P.C.B. 3/9)

14.11. AV Decoder Schematic Diagram (AD) (Digital P.C.B. 4/9)

14.12. System Control Schematic Diagram (S) (Digital P.C.B. 5/9)

14.13. Glue Schematic Diagram (G) (Digital P.C.B. 6/9)

14.14. 1394 DV Schematic Diagram (DV) (Digital P.C.B. 7/9)

14.15. Real Time Stream (RTSC) Schematic Diagram (DS) (Digital P.C.B. 8/9)

14.16. MPEG4 Schematic Diagram (MP) (Digital P.C.B. 9/9)

14.17. ATAPI Schematic Diagram

14.18. Drive ATAPI Schematic Diagram

14.19. Nicam/Decorder Schematic Diagram

14.20. SD & PC Card Schematic Diagram

14.21. Front (L) Schematic Diagram

14.22. Front (R) Schematic Diagram

15. Print Circuit Board

15.1. Power Supply P.C.B.

15.2. Main P.C.B.

15.2.1. Main P.C.B. (Section 1/4)

15.2.2. Main P.C.B. (Section 2/4)

15.2.3. Main P.C.B. (Section 3/4)

15.2.4. Main P.C.B. (Section 4/4)

15.2.5. Main P.C.B. Address Information

15.3. Digital P.C.B.

15.3.1. Digital P.C.B. (Section 1/2)

15.3.2. Digital P.C.B. & DV Jack P.C.B. (Section 2/2)

15.3.3. Digital P.C.B. Address Information

15.4. Drive ATAPI & ATAPI P.C.B.

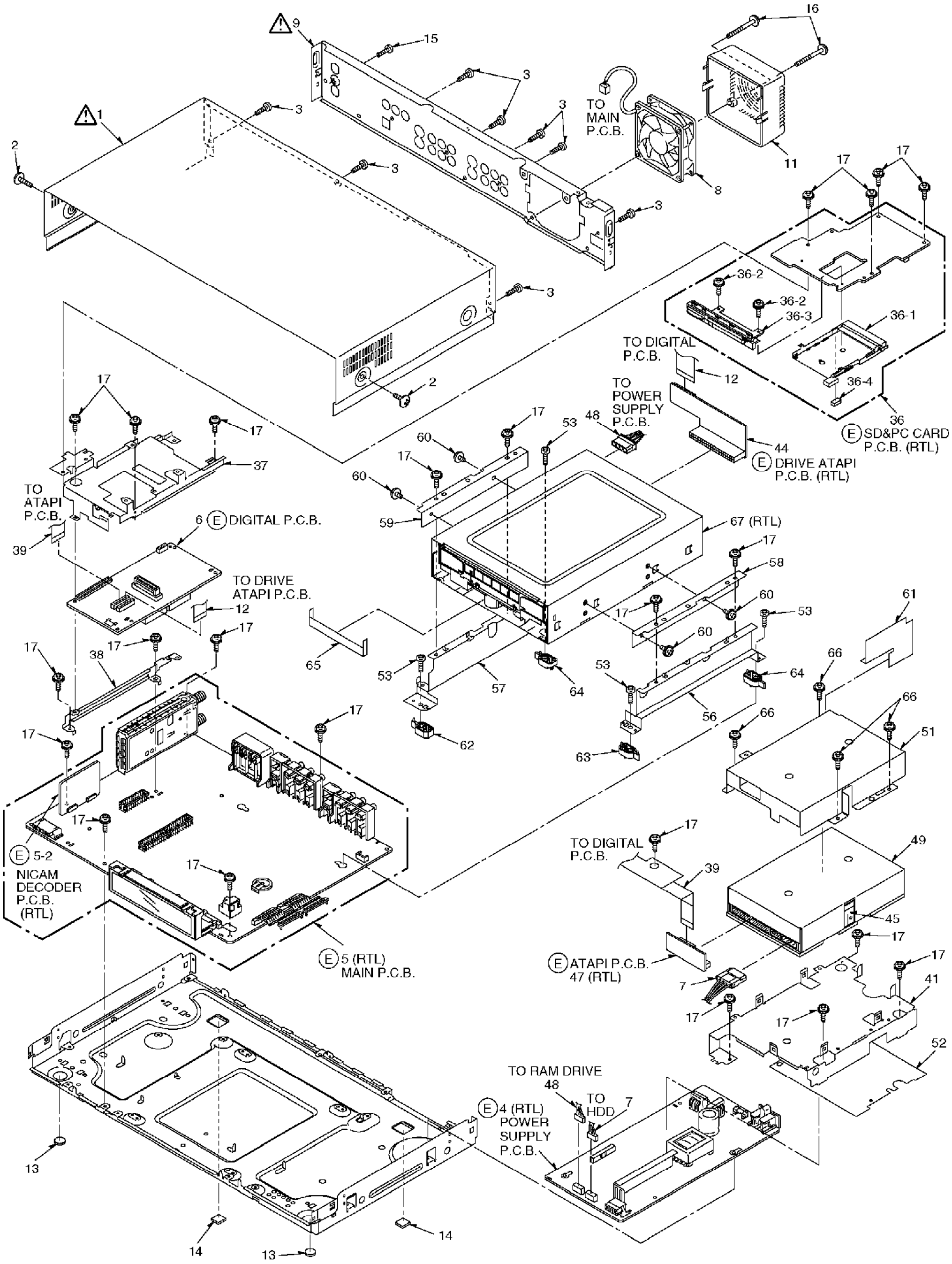
15.5. Nicam/Decoder P.C.B.

15.6. SD & PC Card P.C.B.

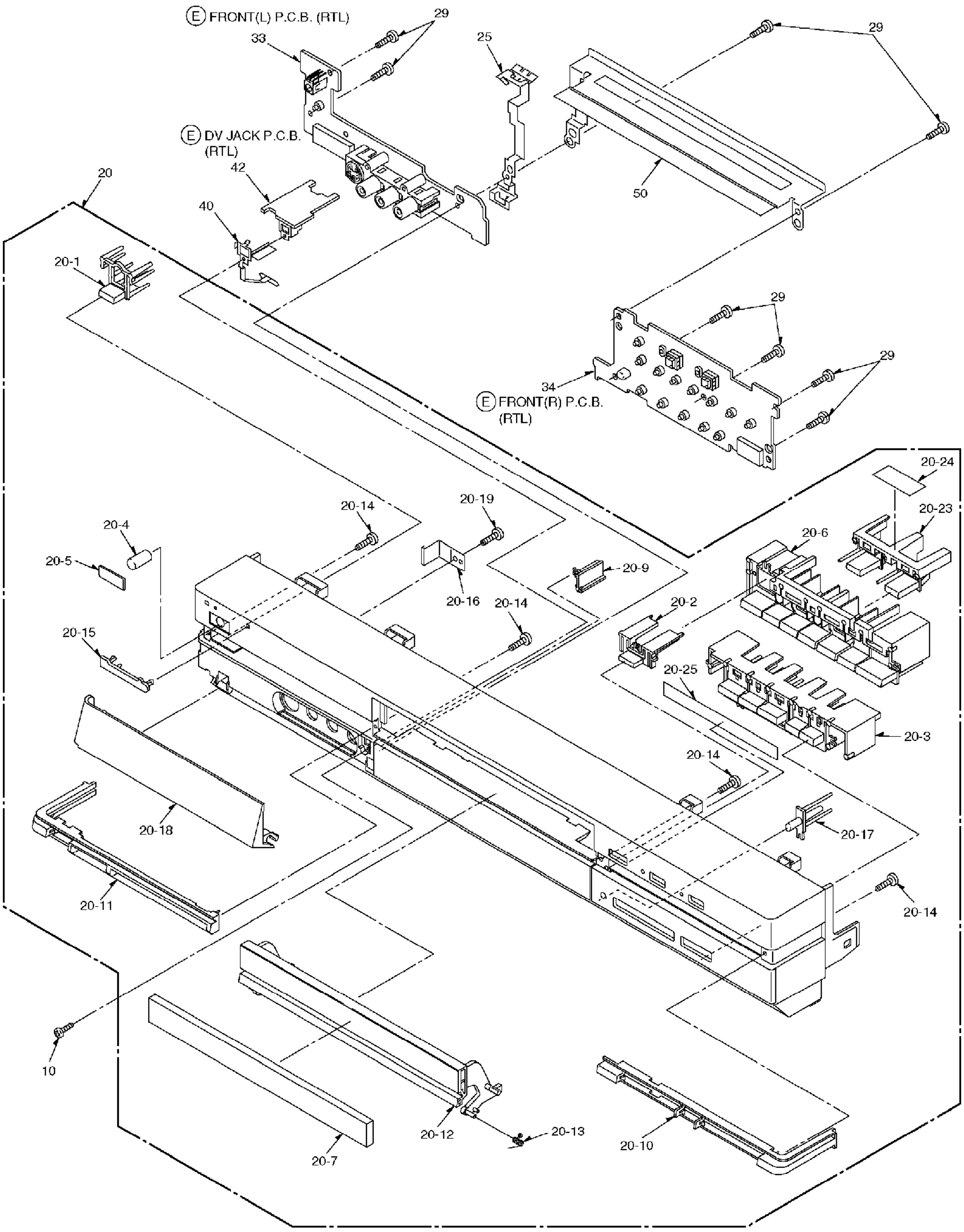
15.7. Front (L) & (R) P.C.B.

16. Exploded Views

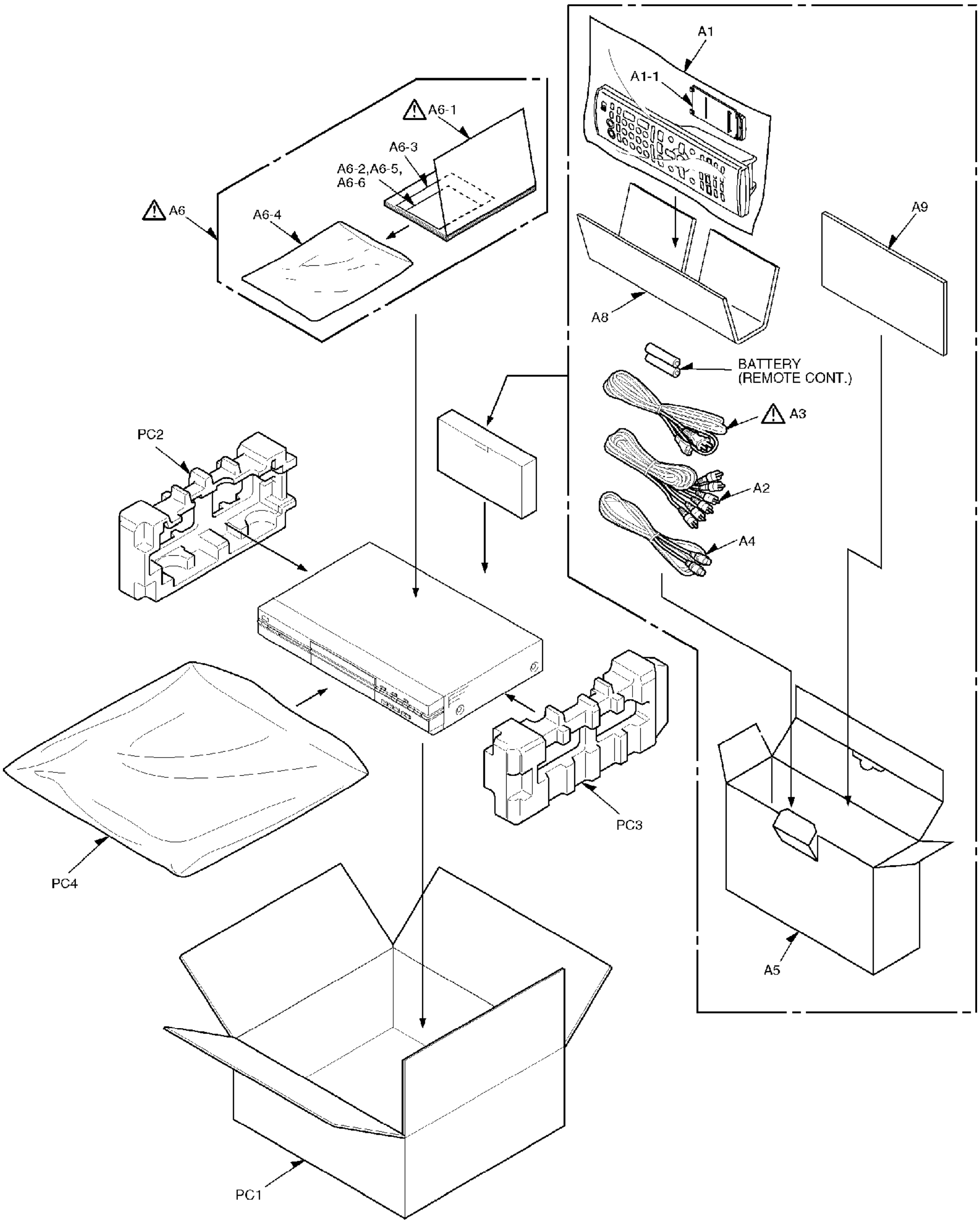
16.1. Casing Parts & Mechanism Section 1


⚠9
15
16
3
⚠1
3
3
TO MAIN P.C.B.
2
3
8
11
3
17
17
17
3
36-2
36-2
36-3
36-1
TO DIGITAL P.C.B.
12
2
TO POWER SUPPLY P.C.B.
36-4
36
Ⓔ SD&PC CARD P.C.B. (RTL)
17
17
53
48
60
17
37
44
Ⓔ DRIVE ATAPI P.C.B. (RTL)
TO ATAPI P.C.B.
60
59
67 (RTL)
6 Ⓔ DIGITAL P.C.B.
39
17
58
TO DRIVE ATAPI P.C.B.
12
17
60
53
61
17
60
17
38
17
65
53
57
64
53
66
64
17
56
66
66
17
62
63
51
Ⓔ 5-2 NICAM DECODER P.C.B. (RTL)
17
17
TO DIGITAL P.C.B.
17
39
49
45
17
Ⓔ 5 (RTL) MAIN P.C.B.
Ⓔ ATAPI P.C.B. 47 (RTL)
7
17
41
17
17
52
TO RAM DRIVE 48
Ⓔ 4 (RTL) POWER SUPPLY P.C.B.
TO HDD 7
13
14
13
14

16.2. Casing Parts & Mechanism Section 2


Ⓔ FRONT(L) P.C.B. (RTL)
29
33
25
29
Ⓔ DV JACK P.C.B. (RTL)
42
20
40
50
20-1
29
29
34
Ⓔ FRONT(R) P.C.B. (RTL)
20-24
20-14
20-19
20-23
20-4
20-6
20-5
20-9
20-16
20-14
20-2
20-15
20-25
20-3
20-14
20-18
20-17
20-11
20-14
10
20-13
20-12
20-10
20-7

16.3. Packing & Accessories Section


A1
A1-1
⚠A6-1
A6-3
A6-2,A6-5,
A6-6
⚠A6
A6-4
A9
A8
BATTERY
(REMOTE CONT.)
⚠A3
PC2
A2
A4
PC3
PC4
A5
PC1

17. Replacement Parts List

Notes:

***Important safety notice:**

Components identified by ⚠ mark have special characteristics important for safety.
Furthermore, special parts which have purposes of fire-retardant (resistors), high-quality sound (capacitors), low-noise (resistors), etc. are used.
When replacing any of components, be sure to use only manufactures specified parts shown in the parts list.

***Warning: This product uses a laser diode. Refer to caution statements.**

***Capacity values are in microfarads (µ F) unless specified otherwise, P=Pico-farads (pF), F= Farads (F).**

***Resistance values are in ohms, unless specified otherwise, 1K=1,000 (OHM), 1M=1,000k (OHM).**

***The marking (RTL) indicates the retention time is limited for this item. After the discontinuation of this assembly in production, it will no longer be available.**
***“<IA>”-“<IC>”, marks in Remarks indicate languages of instruction manuals. [<IA>: English/ Chinese, <IB>: English, <IC>:Chinese All parts are supplied by S.P.C..**

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
■	01	CASING/ACCESSORY/PACKING		
1	RKM0485-S	TOP COVER	1	⚠
2	SNE2129-4	SCREW	2	
3	VHD0690	SCREW	8	
4	ETXMM426E4G	POWER SUPPLY P.C.B.	1	(RTL)
5	REP3603C	MAIN P.C.B.	1	(RTL)
5-2	VEP07A51A	NICOM DECODER P.C.B.	1	(RTL)
6	REP3543F	DIGITAL P.C.B.	1	(GCS)
6	REP3543FH	DIGITAL P.C.B.	1	(GH)
6	REP3543FJ	DIGITAL P.C.B.	1	(GK)
6	REP3543FG	DIGITAL P.C.B.	1	(GN)
7	VEE0Z16	WIRE WITH CONNECTOR(4P)	1	
8	L6FALCCE0004	FAN MOTOR	1	
9	RGR0337L-A	REAR PANEL	1	(GCS) ⚠
9	RGR0337L-C	REAR PANEL	1	(GH) ⚠
9	RGR0337L-D	REAR PANEL	1	(GK) ⚠
9	RGR0337L-B	REAR PANEL	1	(GN) ⚠
10	XQN16+B4FN	SCREW	1	
11	RMN0751	FAN COVER	1	
12	VEK0D78	FFC(40P)	1	
13	RKA0143-K	LEG	2	
14	RKA0144-K	FOOT RUBBER	2	
15	XSN3+4FZ	SCREW	1	
16	XTN3+23JFZ	SCREW	2	
17	XTN3+7F-C	SCREW	25	
20	RYP1203D-S	FRONT PANEL ASS’Y1	1	(GN,GCS,GH)
20	RYP1203E-S	FRONT PANEL ASS’Y1	1	(GK)
20-1	RGU2185B-K	POWER BUTTON	1	
20-2	RGU2228-S	OPEN BUTTON	1	
20-3	RGU2213-S	PLAY BUTTON	1	
20-4	RGQ0327-Q	IR WINDOW GUIDE	1	
20-5	RKW0724-S	IR WINDOW	1	
20-6	RGU2229A-K	CHANNEL BUTTON	1	
20-7	RYF0700-S	TRAY ORNAMENT ASS’Y	1	
20-9	RMR1526-H	SHAFT HOLDER	1	
20-10	RGK1675B-K	FRONT ORNAMENT(R)	1	
20-11	RGK1674-K	FRONT ORNAMENT(L)	1	
20-12	RKF0671-K	TRAY DOOR	1	
20-13	VMB3410	BLINDER SPRING	1	
20-14	XTN2+6G	SCREW	4	
20-15	VGB0560	PANASONIC BADGE	1	
20-16	RMC0577	DOOR SPRING	1	
20-17	RGL0633-Q	PANEL LIGHT	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
20-18	RYF0678B-S	PANEL DOOR ASS’Y	1	
20-19	XTBS26+8J	SCREW	1	
20-23	RGU2230-W	DVD/HDD BUTTON	1	
20-24	RMZ0724	PANEL SHEET	1	
20-25	RMX0253	DAMPER SHEET	1	
25	RMC0549	EARTH PLATE	1	
29	XTBS26+10J	SCREW	8	
33	REP3598CB	FRONT(L)P.C.B.	1	(RTL)
34	REP3598CA	FRONT(R)P.C.B.	1	(RTL)
36	REP3540EA	SD CARD P.C.B.	1	(RTL)
36-1	VXA7527	PC CARD SLOT	1	
36-2	XYN2+F6	SCREW	2	
36-3	RYQ0445A-A	CARD HOLDER ASS’Y	1	
36-4	RMX0266	GASKET	1	
37	RMA1650	PC CARD ANGLE	1	
38	RMA1651	DIGITAL ANGLE(L)	1	
39	VEK0E37	FFC(40P)	1	
40	RMC0550	DV EARTH	1	
41	RMA1675	HDD BRACKET	1	
42	REP3540AB	DV JACK P.C.B.	1	(RTL)
44	REP3604A	DRIVE ATAPI P.C.B.	1	(RTL)
45	N3CBBTM00005	HARD DISC DRIVE ASS’Y	1	
47	REP3542A	ATAPI P.C.B.	1	(RTL)
48	VEE0Y55	WIRE WITH CONNECTOR(4P)	1	
49	RXQ1073-1	SUPER SHEET	1	
50	RMA1669	FRONT ANGLE	1	
51	RMA1674	HDD HOLDER	1	
52	RMZ0700	INSULATED SHEET	1	
53	RHD30109	SCREW	4	
56	RMA1670	MECHA ANGLE(R)	1	
57	RMA1671	MECHA ANGLE(L)	1	
58	RMA1673	MECHA ATTACHMENT(R)	1	
59	RMA1672	MECHA ATTACHMENT(L)	1	
60	XYN3+F6	SCREW	4	
61	RMV0261	BARRIER	1	
62	RMX0255	MECHA SPACER(A)	1	
63	RMX0256	MECHA SPACER(B)	1	
64	RMX0257	MECHA SPACER(C)	2	
65	VSC5562	FRONT SHIELD PLATE	1	
66	XTW3+6M	SCREW	4	
67	VXY1789	RAM DRIVE UNIT	1	(RTL)
A1	EUR7624KE0	REMOTE CONTROL ASS’Y	1	(GN,GCS,GH)
A1	EUR7624KN0	REMOTE CONTROL ASS’Y	1	(GK)
A1-1	UR76EC2403A	BATTERY COVER	1	
A2	K2KA6CA00001	A/V CORD	1	
A3	VJA0664	AC CORD	1	K2CR2DA00004 (GCS) ⚠
A3	RJA0053-3X	AC CORD	1	(GH) ⚠
A3	K2CA2CA00020	AC CORD	1	(GK) ⚠
A3	VJA0754	AC CORD	1	K2CJ2DA00002 (GN) ⚠
A4	VJA1089	RF COAXIAL CABLE	1	K1TWACC00001
A5	RPQF0250	ACCESSORY CASE	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
A6	RQF5230	FAN BAG ASS'Y	1	(GCS) ⚠
A6	RQF5234	FAN BAG ASS'Y	1	(GH) ⚠
A6	RQF5236	FAN BAG ASS'Y	1	(GK) ⚠
A6	RQF5232	FAN BAG ASS'Y	1	(GN) ⚠
A6-1	RQT7107-G	OPERATING INSTRUCTIONS	1	<IA>(GH) ⚠
A6-1	RQT7106-L	OPERATING INSTRUCTIONS	1	<IB>(GN,GCS) ⚠
A6-1	RQT7108-K	OPERATING INSTRUCTIONS	1	<IC>(GK) ⚠
A6-2	RQCA1110	DISC CAUTION SHEET	1	
A6-3	RQCA1171	SD~PC/HDD CAUTION SHEET	1	(GN,GCS,GH)
A6-3	RQCA1177	SD~PC/HDD CAUTION SHEET	1	(GH,GK)
A6-4	RPF0378	POLYETHYLENE BAG(F.B.)	1	
A6-5	VQC4061	CHANNEL DISPLAY SHEET	1	(GN)
A6-6	RQCB1141	CCP CARD	1	(GN)
A8	RPQ1594	PAD(C)	1	(GH)
A9	RPQ1570	PAD(B)	1	(GN,GCS,GK)
PC1	RPG6546	PACKING CASE	1	(GCS)
PC1	RPG6595	PACKING CASE	1	(GH)
PC1	RPG6596	PACKING CASE	1	(GK)
PC1	RPG6594	PACKING CASE	1	(GN)
PC2	RPN1652A	CUSHION(L)	1	
PC3	RPN1652B	CUSHION(R)	1	
PC4	VPF0505	POLYETHYLENE BAG(UNIT)	1	
■	02	ETXMM426E4G		
C001	KH101K	100P	1	⚠
C002	KH102M	1000P	1	⚠
C003	ECQU2A104ML	0.1U	1	⚠
C004	ECQU2A224ML	0.22	1	⚠
C005	KH101K	100P	1	⚠
C006-08	KH102M	1000P	3	⚠
C009	KMM2W470JZ	450V 47	1	
C010-12	MBB105K1	16V 1U	3	
C013	MBC102J5	50V 1000P	1	
C014	MBC681J5	50V 680P	1	
C016	CD222M	2200P	1	⚠
C017	MBB103K5	25V 0.01U	1	
C018	MBB105K1	16V 1U	1	
C019	MBB104K5	50V 0.1	1	
C020	RR3AD102K	1KV 1000P	1	
C022	KY1V330Z	35V 33U	1	
C023	DE2SL680J	2KV 68P	1	
C102	MBC102J5	50V 1000P	1	
C104	KMG1H2R2	50V 2.2	1	
C106	KY1A122	10V 1200U	1	
C107	ECA1AHG102	10V 1000U	1	
C109	KY1E681L	25V 680	1	
C112	KY1A471	10V 470U	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
C114,15	MBB105K1	16V 1U	2	
C116	ECQB1H221KF	50V 220P	1	
C118	MBB104K2	25V 0.1U	1	
C119	ECQB1H333JF	50V 0.033U	1	
C120	MBB104K2	25V 0.1U	1	
C121	ECA1AHG102	10V 1000U	1	
C122	KY1E470	25V 47	1	
C123	KY0J152	6.3V 1500U	1	
C125	KY1A221	10V 220U	1	
C126	KY1A471	10V 470U	1	
C127	KY1E470	25V 47	1	
C129	MBC101K2D	200V 100P	1	
C132	KY1A122	10V 1200U	1	
C133	ECQV1H105JL	50V 1U	1	
C134	MBB224K1	16V 0.22U	1	
C140	KY1C471	16V 470	1	
C142	KY1E331	25V 330U	1	
C301	MBC102J5	50V 1000P	1	
C302	MBB104K2	25V 0.1U	1	
C304	MBB333K5	50V 0.033U	1	
C306	MBB105K1	16V 1U	1	
C307	MBB104K2	25V 0.1U	1	
C308	MBB105K1	16V 1U	1	
C309-11	MBB104K2	25V 0.1U	3	
C312-14	ECJ2FB1H473K	50V 0.033	3	
C315	ECJ2XB1H333K	50V 0.033	1	
C317	MBC102J5	50V 1000P	1	
D001	S1WBA60S	DIODE	1	B0KA00000014 ⚠
D002	MA111TX	DIODE	1	MA2J11100L
D004	MA111TX	DIODE	1	MA2J11100L
D006	M1FL20U	DIODE	1	
D007	AP01C	DIODE	1	B0HADV000010
D008	ERA38-05	DIODE	1	
D101	RL2ZLF	DIODE	1	B0HANM000021
D103	FCQ20A6	DIODE	1	
D105	RK49	DIODE	1	B0JAPK000005
D106	FCQ20A6	DIODE	1	
D107,08	MA165TA5	DIODE	2	MA2C16500E
D112	ERA15-04	DIODE	1	B0EAKP000016
D113,14	MA111TX	DIODE	2	MA2J11100L
D121,22	MA165TA5	DIODE	2	MA2C16500E
D125	MA165TA5	DIODE	1	MA2C16500E
D301,02	MA111TX	DIODE	2	MA2J11100L
D304-07	MA111TX	DIODE	4	MA2J11100L
F001	19181-2A	FUSE	1	⚠
F101,02	19396-2.5A	FUSE	2	⚠
IC001	FA13844N	IC	1	
IC102	AN1431T	IC	1	
IC104	AN1431T	IC	1	
IC105	KA378R12C	IC	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
IC301,02	NJM2904M	IC	2	C0ABBA000021
IP101	ICPN15	IC PROTECTOR	1	⚠
IP102	ICPN25	IC PROTECTOR	1	⚠
L001,02	ELF15N005A	NOISE FILTER	2	⚠
L003	V35VB680K	COIL	1	
L004,05	EXCELDR35	FILTER	2	
L101	EXCELSA24	FILTER	1	
L105-07	EXCELDR35	FILTER	3	
L108	LH8TB100K	COIL	1	
L110	LH8TB100K	COIL	1	
L111	EXCELDR35	FILTER	1	
L112	LHLZ1R5M	FILTER	1	
L114	LHLZ1R5M	FILTER	1	
L115	EXCELSA35	FILTER	1	
L140	LH8TB100K	COIL	1	
L141	EXCELSA35	FILTER	1	
L142	EXCELSA24	FILTER	1	
L143	EXCELSA35	FILTER	1	
P001	M2023	AC INLET	1	⚠
PC001	0N3171	PHOTO COUPLER	1	CNC1S171 ⚠
PS101	B4B-EH-A	CONNECTOR(4P)	1	
PS102	TWGP15XA1	CONNECTOR(15P)	1	
PS103	127602110K	CONNECTOR(10P)	1	
PS104	B4B-EH-A	CONNECTOR(4P)	1	
PS105	TWGP19XA1	CONNECTOR(19P)	1	
Q001,02	2SD601A-R	TRANSISTOR	2	2SD0601AR
Q003	2SK2718	TRANSISTOR	1	⚠
Q004	UN2213	TRANSISTOR	1	UNR2213
Q101	2SB709A	TRANSISTOR	1	2SB0709A
Q102	2SD601A-R	TRANSISTOR	1	2SD0601AR
Q104	2SD601A-R	TRANSISTOR	1	2SD0601AR
Q105	UN221L	TRANSISTOR	1	UNR221L
Q106	UN2111	TRANSISTOR	1	UNR2111
Q107	UPA1720G	TRANSISTOR	1	
Q108	2SB766ARSTX	TRANSISTOR	1	2SB0766AHL
Q109	2SD601A-R	TRANSISTOR	1	2SD0601AR
Q113	2SK2232	TRANSISTOR	1	B1DEHG000006
Q115	2SB709A	TRANSISTOR	1	2SB0709A
Q301	2SK3366	TRANSISTOR	1	
Q302	2SD602A-R	TRANSISTOR	1	2SD0602AR
Q303	2SB710A	TRANSISTOR	1	2SB0710A
Q305	2SB1218A	TRANSISTOR	1	
Q307	2SD1328-R	TRANSISTOR	1	2SD13280R
Q308	2SB1218A	TRANSISTOR	1	
Q310	2SK3366	TRANSISTOR	1	
Q311	2SD602A-R	TRANSISTOR	1	2SD0602AR

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
Q312	2SB710A	TRANSISTOR	1	2SB0710A
Q313	2SB1218A	TRANSISTOR	1	
Q314	2SD1328-R	TRANSISTOR	1	2SD13280R
Q315	2SB1218A	TRANSISTOR	1	
R001	ERDS1FJ223	0.5W 22K	1	
R002	ERDS1FJ105	0.5W 1M	1	
R003	ERDS1FJ223	0.5W 22K	1	
R005	ERDS1FJ223	0.5W 22K	1	
R006	CR10J473	0.1W 47K	1	
R007	CR10F1002	0.1W 10K	1	
R008,09	CR10J473	0.1W 47K	2	
R010	CR10J104	0.1W 100K	1	
R011	CR10F3480	0.1W 348	1	
R012	ER0S2CKF1001	0.25W 1K	1	EROS2CKF1001
R013	CR10J102	0.1W 1K	1	
R015	CR10J333	0.1W 33K	1	
R016,17	CR10J101	0.1W 100	2	
R020	CR10J101	0.1W 100	1	
R021	CR10J561	0.1W 560	1	
R022	CR10J222	0.1W 2.2K	1	
R023	CR10J822	0.1W 8.2K	1	
R025,26	ERJ12YJ4R7H	0.5W 4.7	2	
R027,28	ERJ12YJ224	0.5W 220K	2	
R029,30	CR100R00	0	2	
R032	ERG1SJ102	1W 1K	1	
R102	CR10J100	0.1W 10	1	
R105	CR10J100	0.1W 10	1	
R112	CR10J152	0.1W 1.5K	1	
R113	CR10J471	0.1W 470	1	
R114	CR100R00	0	1	
R115-19	CR10JR16	0.1W 0.16	5	
R120	CR10J102	0.1W 1K	1	
R121	CR10J100	0.1W 10	1	
R122	ER0S2TKF4530	0.25W	1	
R123	CR10J122	0.1W 1.2K	1	
R124	CR10J102	0.1W 1K	1	
R125	CR10J101	0.1W 100	1	
R126	CR10J222	0.1W 2.2K	1	
R127	CR10J101	0.1W 100	1	
R128	CR10F2870	0.1W 287	1	
R129	CR10J101	0.1W 100	1	
R130	ERDS2FJ121	0.25W 120	1	
R131	CR10J102	0.1W 1K	1	
R132	CR10J471	0.1W 470	1	
R135	ER0S2TKF1430	0.25W 14K	1	
R136	CR10J822	0.1W 8.2K	1	
R137	CR10J102	0.1W 1K	1	
R138	CR10J822	0.1W 8.2K	1	
R139	CR10J103	0.1W 10K	1	
R140	ERDS1FJ152	1/2W 1500	1	
R141,42	CR10J152	0.1W 1.5K	2	
R143,44	CR10J272	0.1W 27K	2	
R148-52	CR10JR16	0.1W 0.16	5	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R162,63	CR10J100	0.1W 10	2	
R167	CR10J822	0.1W 8.2K	1	
R168	CR10J153	0.1W 15K	1	
R169	CR10J121	0.1W 120	1	
R170	CR10J101	0.1W 100	1	
R171	CR10J822	0.1W 8.2K	1	
R172	ERJ6GEYG821	RESISTOR	1	
R173	CR10J102	0.1W 1K	1	
R178	CR10J272	0.1W 27K	1	
R179,80	CR10J822	0.1W 8.2K	2	
R181	ERDS2FJ222	1/4W 2.2K	1	
R182	CR10J222	0.1W 2.2K	1	
R183,84	ERJ6GEYG271	1/8W 270	2	
R301	CR10J101	0.1W 100	1	
R302,03	CR10J103	0.1W 10K	2	
R304	CR10J472	0.1W 4.7K	1	
R305	CR10J102	0.1W 1K	1	
R306	CR10J472	0.1W 4.7K	1	
R307	CR10J683	0.1W 68K	1	
R308	CR10J472	0.1W 4.7K	1	
R310	CR10J752	0.1W 7.5K	1	
R311	CR10J103	0.1W 10K	1	
R312	CR10J102	0.1W 1K	1	
R314	CR10J472	0.1W 4.7K	1	
R315	CR10J822	0.1W 8.2K	1	
R316,17	CR10J103	0.1W 10K	2	
R318	CR10J223	0.1W 22K	1	
R319	CR10F2210	0.1W 221	1	
R320	CR10J223	0.1W 22K	1	
R321	CR10F2210	0.1W 221	1	
R322	CR10F1002	0.1W 10K	1	
R323	CR10F3321	0.1W 3.32K	1	
R324	CR10J103	0.1W 10K	1	
R325	CR10F1002	0.1W 10K	1	
R326	CR10F3321	0.1W 3.32K	1	
R327	CR10J103	0.1W 10K	1	
R328,29	CR10J473	0.1W 47K	2	
R330	CR10F6981	0.1W 6.98K	1	
R331	CR10F4642	0.1W 46.4K	1	
R332	CR10F6041	0.1W 6.04K	1	
R333	CR10F4642	0.1W 46.4K	1	
R334	ERJ6ENF5231	0.1W 5.23K	1	
R335	CR10F4752	0.1W 47.5K	1	
R336	ERJ6ENF5231	0.1W 5.23K	1	
R337	CR10F4752	0.1W 47.5K	1	
R338,39	ERJ6ENF1622	0.1W 16.2K	2	
R340,41	CR10F3320	0.1W 332	2	
R346	ERDS2FJ101	1/4W 100	1	
R347,48	CR10J103	0.1W 10K	2	
R349	CR10J472	0.1W 4.7K	1	
R350	CR10J102	0.1W 1K	1	
R351	CR10J472	0.1W 4.7K	1	
R352	CR10J683	0.1W 68K	1	
R353	CR10J472	0.1W 4.7K	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R354	CR10J752	0.1W 7.5K	1	
R355	CR10J103	0.1W 10K	1	
R356	CR10J102	0.1W 1K	1	
R357	CR10J472	0.1W 4.7K	1	
R358	CR10J103	0.1W 10K	1	
T001	ETB28BF1P6A	TRANSFORMER	1	⚠
TH001	NC21F104J	THERMISTOR	1	
TH101	NC21F104J	THERMISTOR	1	
VR102,03	EVMEASA01B52	V.R.	2	
Z002	ERZVGAD471	DIODE	1	⚠
ZD001	RD120EB	DIODE	1	
ZD002	MAZ82700ML	DIODE	1	
ZD101	MA8039	DIODE	1	
ZD102	MA8027	DIODE	1	
ZD104	MA8051	DIODE	1	
ZD301	MA8051	DIODE	1	
ZD302,03	MAZ8051	DIODE	2	
ZD304	MA8051	DIODE	1	
■	03	REP3603C		
B7501	CR-2032/1GUF	LITHIUM BATTERY	1	
C1502	F2A1E221A210	25V 220U	1	
C1503,04	F2A1A471A211	10V 470U	2	
C1505,06	F2A0J471A256	6.3V 470U	2	
C1507	ECJ1VB1C104K	16V 0.1U	1	
C1508	F2A0J470A012	6.3V 47U	1	
C1509	F2A1E4700048	25V 47U	1	
C1510	ECJ1VB1C104K	16V 0.1U	1	
C1511	F2A0J470A012	6.3V 47U	1	
C1512	F2A1E4700048	25V 47U	1	
C1514	F2A1E4700048	25V 47U	1	
C1515	ECJ1VB1C104K	16V 0.1U	1	
C1517	F2A0J470A012	6.3V 47U	1	
C1518	F2A1E4700048	25V 47U	1	
C1528	ECJ1VB1C104K	16V 0.1U	1	
C1530	F2A1E4700048	25V 47U	1	
C1531	F2A0J470A012	6.3V 47U	1	
C1532	ECJ1VB1C104K	16V 0.1U	1	
C3001-04	ECJ1VC1H470J	50V 47P	4	
C3005	ECJ1VC1H560J	50V 56P	1	
C3006,07	ECJ1VC1H390J	50V 39P	2	
C3008	ECJ1VB1H103K	50V 0.01U	1	
C3009	ECEA0JKS470	6.3V 47U	1	
C3010	ECUV1H680JCV	50V 68P	1	ECJ1VC1H680J
C3011	ECJ1VC1H390J	50V 39P	1	
C3012	ECJ1VB1H103K	50V 0.01U	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
C3013	ECEA0JKS470	6.3V 47U	1	
C3014	ECJ1VC1H220J	50V 22P	1	
C3016	ECJ1VC1H220J	50V 22P	1	
C3017	ECJ1VB1H103K	50V 0.01U	1	
C3018	ECJ1VC1H220J	50V 22P	1	
C3019,20	ECJ1VC1H330J	50V 33P	2	
C3022	ECJ1VB1H103K	50V 0.01U	1	
C3023	ECJ1VB1C104K	16V 0.1U	1	
C3024	ECEA0JKS470	6.3V 47U	1	
C3025	ECJ1VC1H102J	50V 1000P	1	
C3027	ECEA1HKS010	50V 1U	1	
C3028,29	ECJ1VB1H103K	50V 0.01U	2	
C3030	ECJ1VC1H561J	50V 560P	1	
C3031	ECJ1VB1C104K	16V 0.1U	1	
C3043	ECJ1VC1H560J	50V 56P	1	
C3044	ECJ1VB1C104K	16V 0.1U	1	
C3045	ECJ1VB0J105K	6.3V 1U	1	
C3046	ECEA0JKS470	6.3V 47U	1	
C3047	ECJ1VB1H103K	50V 0.01U	1	
C3048	ECJ1VB0J105K	6.3V 1U	1	
C3049	ECJ1VC1H150J	50V 15P	1	
C3050	ECJ1VB1C104K	16V 0.1U	1	
C3051	ECEA0JKS101	6.3V 100U	1	
C3052,53	ECEA0JKS470	6.3V 47U	2	
C3055	ECA0JM102	6.3V 1000U	1	
C3056	ECEA0JKS101	6.3V 100U	1	
C3057	ECJ1VB1C104K	16V 0.1U	1	
C3058	ECJ1VC1H560J	50V 56P	1	
C3059	ECA0JM102	6.3V 1000U	1	
C3060	ECEA0JKS101	6.3V 100U	1	
C3061	ECA0JM102	6.3V 1000U	1	
C3062	ECEA0JKS101	6.3V 100U	1	
C3063,64	ECEA0JKS331	6.3V 330U	2	
C3066	ECJ1VB1H102K	50V 1000P	1	
C3067	ECEA1HSN010	50V 1U	1	
C3068	ECEA0JKS220	6.3V 22U	1	
C3069	ECJ1VB1H103K	50V 0.01U	1	
C3070	ECJ1VB1H472K	50V 4700P	1	
C3071	ECJ1VB1H103K	50V 0.01U	1	
C3072,73	ECJ1VC1H470J	50V 47P	2	
C3074	ECJ1VC1H560J	50V 56P	1	
C3075	ECJ1VC1H390J	50V 39P	1	
C3076-84	ECJ1VB1H103K	50V 0.01U	9	
C3085	ECJ1VB1H473K	50V 0.047U	1	
C3086-91	ECJ1VB1H103K	50V 0.01U	6	
C3092	ECJ1VB1C104K	16V 0.1U	1	
C3093,94	ECJ1VB1H103K	50V 0.01U	2	
C3095	ECEA0JKS470	6.3V 47U	1	
C3096	ECJ1VB1C104K	16V 0.1U	1	
C3097	ECJ1VC1H220J	50V 22P	1	
C3098	ECJ1VC1H150J	50V 15P	1	
C3099	ECJ1VC1H220J	50V 22P	1	
C3100	ECJ1VB1H103K	50V 0.01U	1	
C3101,02	ECEA0JKS470	6.3V 47U	2	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
C3103	ECJ1VC1H180J	50V 18P	1	
C3104	ECJ1VC1H102J	50V 1000P	1	
C3901	ECJ1VB1C104K	16V 0.1U	1	
C3902	ECJ1VB1H103K	50V 0.01U	1	
C3904-06	ECJ1VB1H103K	50V 0.01U	3	
C3907	ECJ1VB1C104K	16V 0.1U	1	
C4003	F2A1H100A236	50V 10U	1	
C4005	F2A1E470A205	25V 47U	1	
C4006	F2A1H100A236	50V 10U	1	
C4021	ECJ1VF1C104Z	16V 0.1U	1	
C4023	F2A1H100A236	50V 10U	1	
C4025	F2A1H100A236	50V 10U	1	
C4026	ECJ1VF1C104Z	16V 0.1U	1	
C4028	ECJ1VF1C104Z	16V 0.1U	1	
C4029	F2A1C102A236	16V 1000U	1	
C4030	ECJ1VF1C104Z	16V 0.1U	1	
C4033,34	F2A1C4700011	16V 47U	2	
C4037-42	F2A1H100A236	50V 10U	6	
C4043	ECJ1VF1C104Z	16V 0.1U	1	
C4052	ECJ1VF1C104Z	16V 0.1U	1	
C4055	ECJ1VF1C104Z	16V 0.1U	1	
C4056	F2A0J471A247	6.3V 470U	1	
C4057	ECJ2VC1H680J	50V 68P	1	
C4058,59	ECJ1VF1C104Z	16V 0.1U	2	
C4060	ECJ2VC1H680J	50V 68P	1	
C4061	ECJ1VF1C104Z	16V 0.1U	1	
C4062	ECA1AM221	10V 220U	1	
C4063,64	F2A1C4700011	16V 47U	2	
C4065	ECJ1VF1C104Z	16V 0.1U	1	
C4068	ECJ1VF1C104Z	16V 0.1U	1	
C4070	ECA1AM221	10V 220U	1	
C4072	ECA1AM221	10V 220U	1	
C4074	ECJ1VF1C104Z	16V 0.1U	1	
C4076-78	ECJ1VF1C104Z	16V 0.1U	3	
C4079,80	ECJ1VC1H330J	50V 33P	2	
C4082-85	ECJ2VC1H561J	50V 560P	4	
C4901	F2A0J470A179	6.3V 47U	1	
C4902	ECJ1VF1C104Z	16V 0.1U	1	
C4903	F2A0J470A179	6.3V 47U	1	
C4904,05	ECJ1VF1C104Z	16V 0.1U	2	
C4907,08	ECJ1VC1H470J	50V 47P	2	
C4911,12	ECJ1VC1H470J	50V 47P	2	
C4915-18	ECJ1VC1H471J	50V 470P	4	
C7401	ECJ1VB1H103K	50V 0.01U	1	
C7402	F2A0J470A013	6.3V 47U	1	
C7404	ECJ1VB1H103K	50V 0.01U	1	
C7405	F2A0J470A013	6.3V 47U	1	
C7411	ECJ1VB1C104K	16V 0.1U	1	
C7412	F2A1A470A140	10V 47U	1	
C7416	ECJ1VB1H103K	50V 0.01U	1	
C7417	F2A1H1R0A147	50V 1U	1	F2A1H1R0A146
C7418	ECJ1VB1H103K	50V 0.01U	1	
C7420	ECJ1VB1C104K	16V 0.1U	1	
C7423	ECJ1VB1H222K	50V 2200P	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
C7424	ECA1CHG470	16V 47U	1	F2A1C4700007
C7425	ECJ1VB1C104K	16V 0.1U	1	
C7426	ECA1CHG470	16V 47U	1	F2A1C4700007
C7427	ECJ1VB1H222K	50V 2200P	1	
C7428,29	ECA1HAK2R2XB	50V 2.2U	2	
C7430,31	ECA1CAK100XB	16V 10U	2	
C7432,33	F2A1C100A019	16V 10U	2	
C7437	F2A0J470A013	6.3V 47U	1	
C7438	ECJ1VB1C104K	16V 0.1U	1	
C7439	F2A0J470A013	6.3V 47U	1	
C7443,44	ECJ1VC1H330J	50V 33P	2	
C7502	ECJ1VB1H103K	50V 0.01U	1	
C7503	ECJ1VB1C104K	16V 0.1U	1	
C7504-06	ECJ1VC1H100C	50V 10P	3	
C7507,08	ECJ1VB1H103K	50V 0.01U	2	
C7517	ECJ1VB1H103K	50V 0.01U	1	
C7518,19	ECJ1VF1C104Z	16V 0.1U	2	
C7523,24	ECJ1VB1H103K	50V 0.01U	2	
C7525	F2A1H100A248	50V 10U	1	
C7526	ECJ1VF1H104Z	50V 0.1U	1	
C7528	F2A1C221A243	16V 220U	1	
C7529	F2A0J221A256	6.3V 220U	1	
C7531	ECQB1H223KF3	50V 0.022U	1	
C7532	F2A1V470A190	35V 47U	1	
C7533	F2A1H100A248	50V 10U	1	
C7534	ECJ1VC1H100C	50V 10P	1	
C7535	ECJ1VF1C104Z	16V 0.1U	1	
C7536	ECJ1VC1H120J	50V 12P	1	
C7537	ECJ1VF1A105Z	10V 1U	1	
C7539	ECJ1VC1H101J	50V 100P	1	
C7543-45	ECJ1VC1H101J	50V 100P	3	
C7546	ECJ1VF1C104Z	16V 0.1U	1	
C7547,48	ECJ1VC1H030C	50V 3P	2	
C7585	ECJ1VB1H103K	50V 0.01U	1	
C7586	ECEA1CKA470	16V 47U	1	
C7587	ECJ1VB1H103K	50V 0.01U	1	
C9701,02	ECJ1VF1C104Z	16V 0.1U	2	
D3001	MA2C165001VT	DIODE	1	
D4005,06	MA3Z142D0RG	DIODE	2	
D7401	MA4300N-M	DIODE	1	MAZ4300NM
D7502	MAZ4240NMF	DIODE	1	
D7503	ERA22-02	DIODE	1	B0HAGM000001
D7505,06	MA2C18500E	DIODE	2	
D7507	MA4300N-M	DIODE	1	MAZ4300NM
D7513,14	B0JACE000001	DIODE	2	
DP7501	A2BD00000064	FL DISPLAY TUBE	1	
IC1501	C0DBZHG00012	IC	1	
IC1502	C0DBEFG00002	IC	1	
IC1503	C0DBZFD00015	IC	1	
IC1504	C0DBZGG00010	IC	1	
IC1505	C0DBZHG00012	IC	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
IC1507	C0DBCHD00002	IC	1	
IC1508	C0DBZHE00014	IC	1	
IC1509	C0DBZFG00012	IC	1	
IC1513	C0DBZHE00014	IC	1	
IC3002	C2BBFE000137	IC	1	
IC3003	C1AB00001805	IC	1	
IC3005	C9ZB00000377	IC	1	
IC4002	C0JBAR000285	IC	1	
IC4003	C0ABBB000118	IC	1	
IC4009	C0ABBB000216	IC	1	
IC4010	C0DBZJG00006	IC	1	
IC4011	C0DBZHG00012	IC	1	
IC4012	C0ABBB000118	IC	1	
IC4901	C0JBAB000173	IC	1	
IC7403	NJM4558M	IC	1	C0ABBB000044
IC7405	C0BBBB000006	IC	1	
IC7501	C2BBGF000420	IC	1	
IC7502	C0EBJ0000143	IC	1	
IC7503	C0EBF0000182	IC	1	
IC7504	C0ZBZ0000732	IC	1	
IC7505	C0EBH0000263	IC	1	
IC7507	NJM2904M	IC	1	C0ABBA000021
IP7501	D4FAR4000001	IC PROTECTOR	1	⚠
JK3901	K1U822B00001	JACK,	1	
JK3902	K1U820B00002	JACK,VIDEO OUT	1	
JK3903	K1U407B00003	JACK,	1	
K7401	ERJ3GEY0R00V	1/10W 0	1	
K7413,14	ERJ3GEY0R00V	1/10W 0	2	
K7504	ERJ3GEY0R00V	1/10W 0	1	
L3001	G0C120JA0019	COIL 12UH	1	
L3002	G0C220JA0019	COIL 22UH	1	
L3003,04	G0C120JA0019	COIL 12UH	2	
L3005	G0C220JA0019	COIL 22UH	1	
L3006	G0C120JA0019	COIL 12UH	1	
L3007	G0C4R7JA0019	COIL 4.7UH	1	
L3008	G0C220JA0019	COIL 22UH	1	
L3009,10	G0C4R7JA0019	COIL 4.7UH	2	
L3012	G0C4R7JA0019	COIL 4.7UH	1	
L3014	G0C120JA0019	COIL 12UH	1	
L3015,16	G0C4R7JA0019	COIL 4.7UH	2	
L3017,18	G0C120JA0019	COIL 12UH	2	
L3019	VLQ0599J6R8	COIL 6.8UH	1	G0C6R8JA0026
L3020	G0C120JA0019	COIL 12UH	1	
L3021	VLQ0599J6R8	COIL 6.8UH	1	G0C6R8JA0026
L3022,23	G0C120JA0019	COIL 12UH	2	
L4901	ELESE220KA	COIL 22UH	1	
L7401	G0C2R2JA0019	COIL 2.2UH	1	
L7501	ELESE101K	COIL 100UH	1	
L7502	G0C220JA0019	COIL 22UH	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
LB1501-05	J0JHC0000032	COIL	5	
LB3001	VLP0323A601T	COIL	1	J0JCC0000103
LB3901-04	VLP0323A601T	COIL	4	J0JCC0000103
LB3908-18	VLP0323A601T	COIL	11	J0JCC0000103
LB4901	ERJ3GEYJ331V	1/10W 330U	1	
LB4902	J0JGC0000020	COIL	1	
LB4907-14	VLP0323A601T	COIL	8	J0JCC0000103
LB7401-06	J0JHC0000032	COIL	6	
LB7407	ERJ3GEY0R00V	1/10W 0	1	
LB7408	J0JHC0000032	COIL	1	
LB7508	VLP0083	COIL	1	J0JKB0000011
LB9701,02	J0JHC0000032	COIL	2	
LB9703,04	ERJ3GEY0R00V	1/10W 0	2	
P7501	K1KB20B00040	CONNECTOR(20P)	1	
P7503	K1KA03A00173	CONNECTOR(3P)	1	
PP1501	K1KA19A00016	CONNECTOR(19P)	1	
PP1503	K1KA15A00124	CONNECTOR(15P)	1	
PP9701-03	K1KA30A00180	CONNECTOR(30P)	3	
PP9704	VJP3042G008W	CONNECTOR(8P)	1	K1KA08A00163
Q3001,02	2SB1218A	TRANSISTOR	2	
Q3003	2SA153200L	TRANSISTOR	1	
Q3004	2SB1218A	TRANSISTOR	1	
Q3005	2SD1819A0L	TRANSISTOR	1	
Q3006,07	2SB1218A	TRANSISTOR	2	
Q3008	2SD1819A0L	TRANSISTOR	1	
Q3009	2SB1218A	TRANSISTOR	1	
Q3010	2SD1819A0L	TRANSISTOR	1	
Q3011	2SC393000L	TRANSISTOR	1	
Q3012	2SD1819A0L	TRANSISTOR	1	
Q3015	2SB1218A	TRANSISTOR	1	
Q4004	2SB1218A	TRANSISTOR	1	
Q4006-09	2SD132800L	TRANSISTOR	4	
Q7401	2SB1218A	TRANSISTOR	1	
Q7501	2SD1994B	TRANSISTOR	1	
Q7502	2SD0601A	TRANSISTOR	1	
Q7509	2SD0874A0L	TRANSISTOR	1	
Q7510,11	2SD0601A	TRANSISTOR	2	
QR3001	UN5211	TRANSISTOR	1	UNR5211
QR3002	UN5213TX	TRANSISTOR	1	UNR521300L
QR3004,05	UN5211	TRANSISTOR	2	UNR5211
QR3006-10	UN5213TX	TRANSISTOR	5	UNR521300L
QR3011	UN5113TW	TRANSISTOR	1	
QR4002-07	UN5211	TRANSISTOR	6	UNR5211
QR4010-12	UN5211	TRANSISTOR	3	UNR5211
QR7401	UN5213TX	TRANSISTOR	1	UNR521300L
QR7402	XN0421100L	TRANSISTOR	1	
QR7501	UN5212TX	TRANSISTOR	1	UNR521200L
QR7504	UN5113TW	TRANSISTOR	1	
R1501	ERJ3GEY0R00V	1/10W 0	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R1502	ERJ3GEYJ471V	1/10W 470	1	
R1515	ERDS2FJ271	1/4W 270	1	
R3001	MCR03PZHJ561	1/10W 560	1	
R3002,03	ERJ3GEYJ103V	1/10W 10K	2	D0GB103JA002
R3004	MCR03PZHJ561	1/10W 560	1	
R3005	ERJ3GEYJ103V	1/10W 10K	1	D0GB103JA002
R3006	ERJ3GEYJ101	1/10W 100	1	D0GB101JA002
R3007	ERJ3GEYJ102V	1/10W 1K	1	
R3008	MCR03PZHJ561	1/10W 560	1	
R3009	ERJ3GEYJ103V	1/10W 10K	1	D0GB103JA002
R3010	ERJ3GEYJ101	1/10W 100	1	D0GB101JA002
R3011	ERJ3GEYJ102V	1/10W 1K	1	
R3012-14	ERJ3GEY0R00V	1/10W 0	3	
R3015,16	ERJ3GEYJ103V	1/10W 10K	2	D0GB103JA002
R3017,18	ERJ3GEYJ102V	1/10W 1K	2	
R3019	ERJ3GEYJ473V	1/10W 47K	1	D0GB473JA002
R3020	ERJ3GEYJ103V	1/10W 10K	1	D0GB103JA002
R3021	ERJ3GEYJ472V	1/10W 4.7K	1	
R3022	ERJ3GEYJ103V	1/10W 10K	1	D0GB103JA002
R3024	ERJ3GEYJ102V	1/10W 1K	1	
R3025	MCR03PZHJ561	1/10W 560	1	
R3026	ERJ3GEYJ102V	1/10W 1K	1	
R3027	ERJ3GEYJ105V	1/10W 1M	1	
R3028	ERJ3GEYJ101	1/10W 100	1	D0GB101JA002
R3029	ERJ3GEYJ103V	1/10W 10K	1	D0GB103JA002
R3030	ERJ3GEYJ473V	1/10W 47K	1	D0GB473JA002
R3032,33	ERJ3GEYJ103V	1/10W 10K	2	D0GB103JA002
R3039	ERJ3GEYJ221V	1/10W 220	1	
R3040	ERJ3GEYJ222V	1/10W 2.2K	1	D0GB222JA002
R3041	ERJ3GEYJ473V	1/10W 47K	1	D0GB473JA002
R3042	ERJ3GEYJ101	1/10W 100	1	D0GB101JA002
R3043	ERJ3GEYJ102V	1/10W 1K	1	
R3044,45	ERJ3GEYJ151V	1/10W 150	2	
R3046	ERJ3GEYJ222V	1/10W 2.2K	1	D0GB222JA002
R3047	ERJ3GEYJ101	1/10W 100	1	D0GB101JA002
R3048	ERJ3GEYJ102V	1/10W 1K	1	
R3049,50	ERJ3GEYJ151V	1/10W 150	2	
R3051	ERJ3GEYJ222V	1/10W 2.2K	1	D0GB222JA002
R3052	MCR03PZHJ561	1/10W 560	1	
R3053	ERJ3GEYJ103V	1/10W 10K	1	D0GB103JA002
R3054	ERJ3GEYJ104	1/10W 100K	1	
R3055	ERJ3GEYJ102V	1/10W 1K	1	
R3056	ERJ3GEYJ222V	1/10W 2.2K	1	D0GB222JA002
R3057	ERJ3GEYJ471V	1/10W 470	1	
R3058	ERJ3GEYJ103V	1/10W 10K	1	D0GB103JA002
R3060	ERJ3GEYJ103V	1/10W 10K	1	D0GB103JA002
R3061	ERJ3GEYJ152V	1/10W 1.5K	1	
R3062	ERJ3GEYJ102V	1/10W 1K	1	
R3063	ERJ3GEY0R00V	1/10W 0	1	
R3064	ERJ3GEYJ102V	1/10W 1K	1	
R3065,66	ERJ3GEY0R00V	1/10W 0	2	
R3067	ERJ3GEYJ330V	1/10W 33	1	D0GB330JA002
R3068	ERJ3GEY0R00V	1/10W 0	1	
R3070,71	ERJ3GEY0R00V	1/10W 0	2	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R3072	ERJ3GEYJ102V	1/10W 1K	1	
R3073,74	ERJ3GEYJ221V	1/10W 220	2	
R3075,76	ERJ3GEY0R00V	1/10W 0	2	
R3077	ERJ3GEYJ102V	1/10W 1K	1	
R3080	ERJ3GEY0R00V	1/10W 0	1	
R3084,85	ERJ3GEYJ912V	1/10W 9.1K	2	
R3086	ERJ3GEY0R00V	1/10W 0	1	
R3087	ERJ3GEYJ103V	1/10W 10K	1	D0GB103JA002
R3096	ERJ3GEYJ271V	1/10W 270	1	
R3099	ERJ3GEYJ222V	1/10W 2.2K	1	D0GB222JA002
R3100	ERJ3GEYJ330V	1/10W 33	1	D0GB330JA002
R3102,03	ERJ3GEYJ472V	1/10W 4.7K	2	
R3106	ERJ3GEYJ102V	1/10W 1K	1	
R3107	ERJ3GEYJ473V	1/10W 47K	1	D0GB473JA002
R3108	ERJ3GEYJ103V	1/10W 10K	1	D0GB103JA002
R3901-08	ERJ3GEYJ750	1/10W 75	8	
R3920-24	ERJ3GEYJ750	1/10W 75	5	
R3926,27	ERJ3GEYJ750	1/10W 75	2	
R4002	ERJ3GEYJ103V	1/10W 10K	1	D0GB103JA002
R4003	ERJ3GEYJ333V	1/10W 33K	1	D0GB333JA002
R4004	ERJ3GEYJ562V	1/10W 5.6K	1	D0GB562JA002
R4006	ERJ3GEYJ333V	1/10W 33K	1	D0GB333JA002
R4008	ERJ3GEYJ103V	1/10W 10K	1	D0GB103JA002
R4011	ERJ3GEYJ683V	1/10W 68K	1	D0GB683JA002
R4013	ERJ3GEYJ183V	1/10W 18K	1	D0GB183JA002
R4014	ERJ3GEYJ103V	1/10W 10K	1	D0GB103JA002
R4015	ERJ3GEYJ683V	1/10W 68K	1	D0GB683JA002
R4017	ERJ3GEYJ103V	1/10W 10K	1	D0GB103JA002
R4021,22	ERJ3GEY0R00V	1/10W 0	2	
R4024	ERJ3GEYJ562V	1/10W 5.6K	1	D0GB562JA002
R4026	ERJ3GEYJ183V	1/10W 18K	1	D0GB183JA002
R4030	ERJ3GEYJ103V	1/10W 10K	1	D0GB103JA002
R4037,38	ERJ3GEYJ184V	1/10W 180K	2	
R4040-43	ERJ3GEYJ184V	1/10W 180K	4	
R4044,45	ERJ3GEY0R00V	1/10W 0	2	
R4046,47	D0HB752ZA002	1/10W 7.5K	2	
R4048	ERJ3GEYJ184V	1/10W 180K	1	
R4049-54	ERJ3GEYJ683V	1/10W 68K	6	D0GB683JA002
R4055	D0HB153ZA002	1/10W 15K	1	
R4057	D0HB153ZA002	1/10W 15K	1	
R4060-65	ERJ3GEYJ183V	1/10W 18K	6	D0GB183JA002
R4066,67	JAR0816P103D	1/16W 10K	2	D0HB103ZA002
R4068	ERJ3GEYJ184V	1/10W 180K	1	
R4071	ERJ3GEYJ473V	1/10W 47K	1	D0GB473JA002
R4072,73	ERJ3GEYJ563V	1/10W 56K	2	
R4074	ERJ3GEYJ473V	1/10W 47K	1	D0GB473JA002
R4076,77	ERJ3GEYJ821V	1/10W 820	2	
R4078,79	ERJ3GEYJ272V	1/10W 2.7K	2	
R4080,81	ERJ3GEYJ821V	1/10W 820	2	
R4088,89	ERJ3GEYJ272V	1/10W 2.7K	2	
R4090-93	ERJ3GEYJ221V	1/10W 220	4	
R4903	ERJ3GEY0R00V	1/10W 0	1	
R7401,02	ERJ3GEY0R00V	1/10W 0	2	
R7403,04	ERJ3GEYJ101	1/10W 100	2	D0GB101JA002

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R7405	ERJ3GEYJ222V	1/10W 2.2K	1	D0GB222JA002
R7412	ERJ3GEYJ103V	1/10W 10K	1	D0GB103JA002
R7415	ERJ3GEYJ472V	1/10W 4.7K	1	
R7416,17	ERJ3GEYJ101	1/10W 100	2	D0GB101JA002
R7418,19	ERG2SJ471E	2W 470	2	
R7422	ERJ3GEYJ221V	1/10W 220	1	
R7425,26	ERJ3GEYJ101	1/10W 100	2	D0GB101JA002
R7427-32	ERJ3GEYJ154V	1/10W 150K	6	
R7433	ERJ3GEYJ222V	1/10W 2.2K	1	D0GB222JA002
R7434	ERJ3GEYJ682V	1/10W 6.8K	1	D0GB682JA002
R7435	ERJ3GEYJ222V	1/10W 2.2K	1	D0GB222JA002
R7436	ERJ3GEYJ682V	1/10W 6.8K	1	D0GB682JA002
R7437,38	ERJ3GEY0R00V	1/10W 0	2	
R7445	ERJ3RBD222V	1/16W 2.2K	1	
R7446	ERJ3RBD153	1/16W 15K	1	
R7447	ERJ3RBD102V	1/16W 1K	1	
R7448	ERJ3RBD222V	1/16W 2.2K	1	
R7451	ERJ3RBD133V	1/16W 13K	1	
R7452	ERJ3GEYJ681V	1/10W 680	1	D0GB681JA002
R7501	ERJ3GEYJ103V	1/10W 10K	1	D0GB103JA002
R7502	ERJ3GEYJ683V	1/10W 68K	1	D0GB683JA002
R7503	ERJ3GEYJ103V	1/10W 10K	1	D0GB103JA002
R7504	ERJ3GEYJ683V	1/10W 68K	1	D0GB683JA002
R7505	ERJ3GEYJ472V	1/10W 4.7K	1	
R7506-10	ERJ3GEYJ101	1/10W 100	5	D0GB101JA002
R7513,14	ERJ3GEYJ221V	1/10W 220	2	
R7515,16	ERJ3GEYJ473V	1/10W 47K	2	D0GB473JA002
R7518	ERDS2FJ331	1/4W 330	1	
R7519	ERDS2FJ3R9	1/4W 3.9	1	
R7521	ERJ3GEYJ332V	1/10W 3.3K	1	D0GB332JA002
R7522,23	ERJ3GEYJ104	1/10W 100K	2	
R7524	ERJ3GEYJ101	1/10W 100	1	D0GB101JA002
R7525	ERJ3GEYJ473V	1/10W 47K	1	D0GB473JA002
R7526,27	ERJ3GEYJ101	1/10W 100	2	D0GB101JA002
R7528	ERJ3GEYJ221V	1/10W 220	1	
R7529-31	ERJ3RBD822	1/16W 8.2K	3	
R7532-34	ERJ3GEYJ101	1/10W 100	3	D0GB101JA002
R7536	ERJ3GEYJ472V	1/10W 4.7K	1	
R7537	ERJ3GEYJ223V	1/10W 22K	1	D0GB223JA002
R7540	ERJ3GEYJ101	1/10W 100	1	D0GB101JA002
R7541-43	ERJ3GEYJ473V	1/10W 47K	3	D0GB473JA002
R7544	ERJ3GEYJ221V	1/10W 220	1	
R7545	ERJ3GEYD153V	1/10W 15K	1	D0HB153ZA002
R7546	ERJ3GEYJ473V	1/10W 47K	1	D0GB473JA002
R7547	ERJ3GEYJ222V	1/10W 2.2K	1	D0GB222JA002
R7548,49	ERJ3GEYJ101	1/10W 100	2	D0GB101JA002
R7550	ERJ3GEYD153V	1/10W 15K	1	D0HB153ZA002
R7554,55	ERJ3GEYJ473V	1/10W 47K	2	D0GB473JA002
R7556	ERJ3GEYJ683V	1/10W 68K	1	D0GB683JA002
R7557	ERJ3GEY0R00V	1/10W 0	1	
R7558,59	ERJ3GEYJ101	1/10W 100	2	D0GB101JA002
R7563	ERJ3GEYJ473V	1/10W 47K	1	D0GB473JA002
R7564	ERJ3GEYJ102V	1/10W 1K	1	
R7565	ERJ3GEYJ104	1/10W 100K	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R7566-73	ERJ3GEYJ683V	1/10W 68K	8	D0GB683JA002
R7574-78	ERJ3GEYJ104	1/10W 100K	5	
R7580-82	ERJ3GEYJ104	1/10W 100K	3	
R7583,84	ERJ3GEYJ101	1/10W 100	2	D0GB101JA002
R7586	ERJ3GEYJ101	1/10W 100	1	D0GB101JA002
R7587	ERJ3GEYJ221V	1/10W 220	1	
R7588	ERJ3GEYJ473V	1/10W 47K	1	D0GB473JA002
R7590	ERJ3GEYJ101	1/10W 100	1	D0GB101JA002
R7600	ERJ3GEYJ103V	1/10W 10K	1	D0GB103JA002
R7601	ERJ3GEYJ821V	1/10W 820	1	
R7602	ERJ3GEYJ183V	1/10W 18K	1	D0GB183JA002
T7501	ETS13TB119AP	TRANSFORMER	1	
TU7402	ENG57818G1R	TUNER PACK	1	
W501-08	ERJ3GEY0R00V	1/10W 0	8	
W510-20	ERJ3GEY0R00V	1/10W 0	11	
W522-25	ERJ3GEY0R00V	1/10W 0	4	
X3001	H0D800400016	CRYSTAL OSCILLATOR	1	
X7501	H0A327200082	CRYSTAL OSCILLATOR	1	
X7502	H0D419400020	CRYSTAL OSCILLATOR	1	
ZJ7401-04	VJR0978	EARTH ANGLE	4	K9ZZ00000424
ZJ9701	VJR0978	EARTH ANGLE	1	K9ZZ00000424
■	04	VEP07A51A		
C7301	ECJ1VF1C104Z	16V 0.1U	1	
C7302	ERJ3GEY0R00V	1/10W 0	1	
C7303	ECEA0JKS101	6.3V 100U	1	
C7305	ECEA0JKS101	6.3V 100U	1	
C7306	ECJ1VF1H103Z	50V 0.01U	1	
C7307,08	ECJ1VC1H100C	50V 10P	2	
C7309-11	ECJ1VC1H101J	50V 100P	3	
C7312,13	ECEA1CKS100	16V 10U	2	
C7314	ECJ1VF1C104Z	16V 0.1U	1	
C7317	ECEA1CKA470	16V 47U	1	
C7318	ECEA1CKS100	16V 10U	1	
C7323	ECJ1VC1H102J	50V 1000P	1	
C7324	ECJ1VF1C104Z	16V 0.1U	1	
C7329	ERJ3GEY0R00V	1/10W 0	1	
C7330	ERJ3GEYJ822V	1/10W 8.2K	1	D0GB822JA002
C7332	ECJ1VF1C104Z	16V 0.1U	1	
C7333	ECJ1VB1C104K	16V 0.1U	1	
C7334	ECEA1HKS2R2	50V 2.2U	1	
C7335	ECJ1VF1C104Z	16V 0.1U	1	
IC7301	TDA9874AH	IC	1	C1AB00001404
IC7302	PST7043-T	IC	1	C0EAH0000051
K7301-03	ERJ3GEY0R00V	1/10W 0	3	
K7305	ERJ3GEY0R00V	1/10W 0	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
L7303	G0C1R0JA0019	COIL	1	
LB7301,02	J0JCC0000124	COIL	2	
LB7303	J0JCC0000080	COIL	1	
PK7301	VJR0777B007W	CONNECTOR(7P)	1	K1MM07B00002
PK7302	VJR0777B006W	CONNECTOR(6P)	1	K1MM06B00002
R7301	ERJ3GEY0R00V	1/10W 0	1	
R7304	ERJ3GEYJ101	1/10W 100	1	D0GB101JA002
R7307	ERJ3GEY0R00V	1/10W 0	1	
R7309	ERJ3GEYJ103V	1/10W 10K	1	D0GB103JA002
R7311	ERJ3GEYJ221V	1/10W 220	1	
R7312,13	ERJ3GEYG221	1/10W 220	2	
R7314,15	ERJ3GEY0R00V	1/10W 0	2	
R7317	ERJ3GEY0R00V	1/10W 0	1	
R7319	ERJ3GEY0R00V	1/10W 0	1	
R7322	ERJ3GEY0R00V	1/10W 0	1	
R7324,25	ERJ3GEYJ101	1/10W 100	2	D0GB101JA002
W6,W7	ERJ3GEY0R00V	1/10W 0	2	
X7301	H0D245500016	CRYSTAL OSCILLATOR	1	
■	05	REP3543F/FG/FH/FJ		
C3201,02	ECJ1VB1C104K	16V 0.1U	2	
C3203	ECJ1VB1H222K	50V 2200P	1	
C3205	ECJ1VB1C104K	16V 0.1U	1	
C3207	ECJ1VB1H103K	50V 0.01U	1	
C3211	ECJ1VF1C104Z	16V 0.1U	1	
C3213	EEEHB0J220R	6.3V 22P	1	
C3216	ECJ1VB1H103K	50V 0.01U	1	
C3217-26	ECJ1VB1C104K	16V 0.1U	10	
C3227	EEEHB0J101P	6.3V 100P	1	
C3229,30	ECJ1VB1H102K	50V 1000P	2	
C3231	ECJ1VB1H103K	50V 0.01U	1	
C3502	ECJ1VB1H103K	50V 0.01U	1	
C3601	ECJ1VB1H103K	50V 0.01U	1	
C3602,03	ECJ1VF1C104Z	16V 0.1U	2	
C4402	ECJ1VF1C104Z	16V 0.1U	1	
C4403	F2G0J331A015	6.3V 330U	1	
C4406	EEEHB0J220R	6.3V 22P	1	
C4407	ECJ1VF1C104Z	16V 0.1U	1	
C4408	EEEHB0J101P	6.3V 100P	1	
C4409-14	ECJ1VB1H102K	50V 1000P	6	
C4415	EEEHB1E4R7R	25V 4.7P	1	
C4416	ECJ1VF1C104Z	16V 0.1U	1	
C4417	ECST1AY106R	10V 10U	1	
C4418,19	ECJ1VF1C104Z	16V 0.1U	2	
C6001	ECJ1VF1C104Z	16V 0.1U	1	
C9001	EEEHB0J470R	6.3V 47P	1	
C9003-06	EEEHB0J470R	6.3V 47P	4	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
C9008	EEEHB0J470R	6.3V 47P	1	
C9009,10	ECJ1VC1H100C	50V 10P	2	
C9011	EEEHB0J470R	6.3V 47P	1	
C9013	EEEHB0J470R	6.3V 47P	1	
C9015	ECJ1VF1C104Z	16V 0.1U	1	
C9016	EEEHB0J470R	6.3V 47P	1	
C9017	ECJ1VF1C104Z	16V 0.1U	1	
C9019	F1J0J106A014	6.3V 10U	1	
C37001	ECUV1H271JCV	50V 270P	1	ECJ1VC1H271J
C37002,03	ECJ2YB1A105K	10V 1U	2	
C37007,08	ECJ1VC1H120J	50V 12P	2	
C37009	ECJ1VB1C104K	16V 0.1U	1	
C37011	ECJ1VB1C104K	16V 0.1U	1	
C37012	EEEHB0J470R	6.3V 47P	1	
C37013	ECJ1VB1C104K	16V 0.1U	1	
C37014	ECJ2YB1A105K	10V 1U	1	
C37015	EEEHB0J101P	6.3V 100P	1	
C37025	ECJ1VB1C104K	16V 0.1U	1	
C37031	ECJ1VC1H180J	50V 18P	1	
C37032	ECJ1VC1H330J	50V 33P	1	
C37033	ECJ1VB1C104K	16V 0.1U	1	
C37034	ECJ2YB1A105K	10V 1U	1	
C37035,36	ECJ1VC1H560J	50V 56P	2	
C50001	ECJ1VF1C104Z	16V 0.1U	1	
C50007	ECJ1VB1C104K	16V 0.1U	1	
C50008,09	ECJ1VB0J105K	6.3V 1U	2	
C50010	EEEHB0J220R	6.3V 22P	1	
C50013,14	ECJ1VF1C104Z	16V 0.1U	2	
C50015	EEEHB0J220R	6.3V 22P	1	
C50016	ECJ1VF1C104Z	16V 0.1U	1	
C50018	EEEHB0J101P	6.3V 100P	1	
C50025	ECST1AY106R	10V 10U	1	
C50026	EEEHB0J470R	6.3V 47P	1	
C50027	EEEHB1C100R	16V 10P	1	
C50028	ECJ1VF1C104Z	16V 0.1U	1	
D3201,02	MA3S132E0L	DIODE	2	
D3203,04	MA2ZV0100L	DIODE	2	
D9001	MA3Z142K0LG	DIODE	1	
FL3205-09	F1H0J1050018	FILTER	5	
FL3212,13	F1H0J1050018	FILTER	2	
FL3216	F1H0J1050018	FILTER	1	
FL3218	F1H0J1050018	FILTER	1	
FL3220	F1H0J1050018	FILTER	1	
FL3222	F1H0J1050018	FILTER	1	
FL3225	F1H0J1050018	FILTER	1	
FL3401-06	F1H0J1050018	FILTER	6	
FL3409-11	F1H0J1050018	FILTER	3	
FL3421	F1H0J1050018	FILTER	1	
FL3428	F1H0J1050018	FILTER	1	
FL3501-14	F1H0J1050018	FILTER	14	
FL3601-10	F1H0J1050018	FILTER	10	
FL3614	F1H0J1050018	FILTER	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
FL4401,02	F1H0J1050018	FILTER	2	
FL6001-13	F1H0J1050018	FILTER	13	
FL6701-03	F1H0J1050018	FILTER	3	
FL9003-05	F1H0J1050018	FILTER	3	
FL9007	F1H0J1050018	FILTER	1	
FL9012,13	F1H0J1050018	FILTER	2	
FL9016	F1H0J1050018	FILTER	1	
FL9020	F1H0J1050018	FILTER	1	
FL9022	F1H0J1050018	FILTER	1	
FL37001-09	F1H0J1050018	FILTER	9	
FL37012	F1H0J1050018	FILTER	1	
FL37014,15	F1H0J1050018	FILTER	2	
FL50001,02	F1H0J1050018	FILTER	2	
FL50005-14	F1H0J1050018	FILTER	10	
FL50016-21	F1H0J1050018	FILTER	6	
FL50023	F1H0J1050018	FILTER	1	
FL50025	F1H0J1050018	FILTER	1	
FL50028	F1H0J1050018	FILTER	1	
FP3501,02	K1MN40A00021	CONNECTOR(40P)	2	
IC3201	C3ABMG000103	IC	1	
IC3203	MN673744R	IC	1	
IC3204,05	C0JBAB000474	IC	2	
IC3206	C0JBAR000332	IC	1	
IC3401	C3ABPJ000018	IC	1	
IC3402	MN85572R	IC	1	
IC3501,02	C3ABQG000043	IC	2	
IC3503	MN88301	IC	1	
IC3603	C0JBAZ001776	IC	1	
IC3604	TC7SH04FUTL	IC	1	C0JBAB000175
IC3607	C3ABPJ000018	IC	1	
IC3608	C0ZBZ0000720	IC	1	
IC3609	C0JBAF000162	IC	1	
IC4402	C0ABBB000105	IC	1	
IC4403	C0FBAK000008	IC	1	
IC4404	C0JBAA000257	IC	1	
IC6001	C0EBE0000130	IC	1	
IC6002,03	C3ABQG000043	IC	2	
IC6004	MNZE0500YDR	IC	1	
IC6006	C3CBKD000119	IC	1	
IC6007	74LCX16244MT	IC	1	C0JBAZ001475
IC6701	C1ZBZ0002255	IC	1	
IC6702	C0JBAB000474	IC	1	
IC6704	REP3543F	DIGITAL P.C.B.	1	(GCS)
IC6704	REP3543FG	DIGITAL P.C.B.	1	(GN)
IC6704	REP3543FH	DIGITAL P.C.B.	1	(GH)
IC6704	REP3543FJ	DIGITAL P.C.B.	1	(GK)
IC9001	C0DBZFE00003	IC	1	
IC9002	C0DBCGD00001	IC	1	
IC37001	MN673745	IC	1	
IC37002	C1DB00000526	IC	1	
IC37003	BH7086KV	IC	1	C1ZBZ0001649
IC37006	C1BB00000699	IC	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
IC37008	C0JBAA000102	IC	1	
IC37011	C0JBAA000102	IC	1	
IC50001	C1DB00000895	IC	1	
IC50002	C3ABPG000067	IC	1	
IC50003	MN6775511	IC	1	
IC50004	C3ABPG000067	IC	1	
IC50005	C0JBAR000332	IC	1	
IC50006	C0JBAB000474	IC	1	
IC50009	C0JBAZ001776	IC	1	
IC50010	C0FBBK000035	IC	1	
IC50011	C0CBCBD00002	IC	1	
IC50013	C0JBAD000107	IC	1	
IC50014	C0JBAF000206	IC	1	
IC50015	C0CBCBD00002	IC	1	
L37001	VLQ0426J120	COIL 12UH	1	G1C120J00005
LB3201-04	J0JHC0000032	COIL	4	
LB3401,02	J0JHC0000032	COIL	2	
LB3501	J0JHC0000032	COIL	1	
LB3502,03	J0JHC0000045	COIL	2	
LB4401-03	J0JGC0000020	COIL	3	
LB9001	J0JHC0000032	COIL	1	
LB9003	J0JHC0000045	COIL	1	
LB9004,05	J0JHC0000032	COIL	2	
LB9006	J0JHC0000045	COIL	1	
LB9007-11	J0JHC0000032	COIL	5	
LB9012	J0JHC0000045	COIL	1	
LB9020,21	VLP0323A601T	COIL	2	J0JCC0000103
LB9038	ERJ3GEYJ221V	1/10W 220	1	
LB37001,02	J0JHC0000032	COIL	2	
LB37005	J0JHC0000032	COIL	1	
LB50001	J0JHC0000032	COIL	1	
LB50003	J0JGC0000020	COIL	1	
LB50004,05	J0JHC0000032	COIL	2	
LB50006	J0JGC0000020	COIL	1	
P3503	K1KA70A00037	CONNECTOR(70P)	1	
P6001	K1KA06A00328	CONNECTOR(6P)	1	
PS9001-03	K1KB30A00135	CONNECTOR(30P)	3	
PS37001	K1KB08B00055	CONNECTOR(8P)	1	
Q3201	2SB1218A	TRANSISTOR	1	
Q3202	2SD1819A0L	TRANSISTOR	1	
Q6701-04	2SD0601A	TRANSISTOR	4	
Q50001-05	2SB1218A	TRANSISTOR	5	
QR3501	UN5213TX	TRANSISTOR	1	UNR521300L
QR3503	UN5213TX	TRANSISTOR	1	UNR521300L
QR9001	UNR511100L	TRANSISTOR	1	
QR9005	UN5213TX	TRANSISTOR	1	UNR521300L
R3204	ERJ3GEYJ103V	1/10W 10K	1	D0GB103JA002

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R3205	ERJ3GEYJ622V	1/10W 6.2K	1	
R3211,12	ERJ3GEYJ223V	1/10W 22K	2	D0GB223JA002
R3216	ERJ3GEYJ103V	1/10W 10K	1	D0GB103JA002
R3217,18	ERJ3GEYJ220V	1/10W 22	2	
R3219	ERJ3GEYJ562V	1/10W 5.6K	1	D0GB562JA002
R3220,21	ERJ3RBD682	1/16W 6.8K	2	ERJ3RBD682V
R3222	ERJ3GEYJ104	1/10W 100K	1	
R3223	ERJ3GEYJ103V	1/10W 10K	1	D0GB103JA002
R3224	ERJ3GEYJ102V	1/10W 1K	1	
R3226	ERJ3GEY0R00V	1/10W 0	1	
R3232	ERJ3GEYJ220V	1/10W 22	1	
R3233	ERJ3GEY0R00V	1/10W 0	1	
R3237,38	ERJ3GEY0R00V	1/10W 0	2	
R3239	ERJ3GEYJ104	1/10W 100K	1	
R3240	ERJ3GEYJ105V	1/10W 1M	1	
R3241	ERJ3GEYJ681V	1/10W 680	1	D0GB681JA002
R3242	ERJ3GEYJ104	1/10W 100K	1	
R3254	ERJ3GEYJ220V	1/10W 22	1	
R3261	ERJ3GEY0R00V	1/10W 0	1	
R3401	ERJ3GEYJ390	1/10W 39	1	
R3402	ERJ3GEYJ220V	1/10W 22	1	
R3403	ERJ3GEY0R00V	1/10W 0	1	
R3404	ERJ3GEYJ220V	1/10W 22	1	
R3406	ERJ3GEYJ220V	1/10W 22	1	
R3415,16	ERJ3GEYJ220V	1/10W 22	2	
R3423	ERJ3GEYJ220V	1/10W 22	1	
R3425	ERJ3GEY0R00V	1/10W 0	1	
R3427	ERJ3GEY0R00V	1/10W 0	1	
R3503	ERJ3GEYJ220V	1/10W 22	1	
R3504-06	ERJ3GEYJ330V	1/10W 33	3	D0GB330JA002
R3507,08	ERJ3GEYJ220V	1/10W 22	2	
R3509-12	ERJ3GEYJ330V	1/10W 33	4	D0GB330JA002
R3513	ERJ3GEY0R00V	1/10W 0	1	
R3514	ERJ3GEYJ330V	1/10W 33	1	D0GB330JA002
R3515	ERJ3GEYJ103V	1/10W 10K	1	D0GB103JA002
R3516,17	ERJ3GEYJ330V	1/10W 33	2	D0GB330JA002
R3519-25	ERJ3GEY0R00V	1/10W 0	7	
R3526-29	ERJ3GEYJ330V	1/10W 33	4	D0GB330JA002
R3531	ERJ3GEYJ473V	1/10W 47K	1	D0GB473JA002
R3533	ERJ3GEYJ103V	1/10W 10K	1	D0GB103JA002
R3534	ERJ3GEYJ332V	1/10W 3.3K	1	D0GB332JA002
R3535	ERJ3GEYJ102V	1/10W 1K	1	
R3536	ERJ3GEY0R00V	1/10W 0	1	
R3538	ERJ3GEYJ103V	1/10W 10K	1	D0GB103JA002
R3539,40	ERJ3GEYJ820V	1/10W 82	2	
R3541	ERJ3GEYJ562V	1/10W 5.6K	1	D0GB562JA002
R3542,43	ERJ3GEYJ103V	1/10W 10K	2	D0GB103JA002
R3544	ERJ3GEYJ473V	1/10W 47K	1	D0GB473JA002
R3545,46	ERJ3GEYJ103V	1/10W 10K	2	D0GB103JA002
R3547	ERJ3GEYJ102V	1/10W 1K	1	
R3548	ERJ3GEYJ101	1/10W 100	1	D0GB101JA002
R3601	ERJ3GEY0R00V	1/10W 0	1	
R3603-07	ERJ3GEYJ473V	1/10W 47K	5	D0GB473JA002
R3608	ERJ3GEY0R00V	1/10W 0	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R3609	ERJ3GEYJ473V	1/10W 47K	1	D0GB473JA002
R3610	ERJ3GEYJ330V	1/10W 33	1	D0GB330JA002
R3611	ERJ3GEYJ221V	1/10W 220	1	
R3612	ERJ3GEY0R00V	1/10W 0	1	
R3613-15	ERJ3GEYJ220V	1/10W 22	3	
R3616	ERJ3GEYJ473V	1/10W 47K	1	D0GB473JA002
R3617	ERJ3GEYJ221V	1/10W 220	1	
R3618	ERJ3GEYJ220V	1/10W 22	1	
R3619,20	ERJ3GEYJ473V	1/10W 47K	2	D0GB473JA002
R3622,23	ERJ3GEY0R00V	1/10W 0	2	
R3624-27	ERJ3GEYJ220V	1/10W 22	4	
R3628,29	ERJ3GEYJ472V	1/10W 4.7K	2	
R3630	ERJ3GEYJ102V	1/10W 1K	1	
R3631	ERJ3GEY0R00V	1/10W 0	1	
R3633	ERJ3GEYJ473V	1/10W 47K	1	D0GB473JA002
R3634	ERJ3GEY0R00V	1/10W 0	1	
R3636	ERJ3GEYJ473V	1/10W 47K	1	D0GB473JA002
R3637	ERJ3GEYJ103V	1/10W 10K	1	D0GB103JA002
R3638-48	ERJ3GEY0R00V	1/10W 0	11	
R3649	ERJ3GEYJ220V	1/10W 22	1	
R3650	ERJ3GEYJ473V	1/10W 47K	1	D0GB473JA002
R3652,53	ERJ3GEY0R00V	1/10W 0	2	
R3654,55	ERJ3GEYJ473V	1/10W 47K	2	D0GB473JA002
R3656-58	ERJ3GEYJ103V	1/10W 10K	3	D0GB103JA002
R3660	ERJ3GEY0R00V	1/10W 0	1	
R3661	ERJ3GEYJ473V	1/10W 47K	1	D0GB473JA002
R3662	ERJ3GEY0R00V	1/10W 0	1	
R3664-67	ERJ3GEY0R00V	1/10W 0	4	
R3680	ERJ3GEY0R00V	1/10W 0	1	
R3691	ERJ3GEY0R00V	1/10W 0	1	
R3692	ERJ3GEYJ473V	1/10W 47K	1	D0GB473JA002
R3693-95	ERJ3GEY0R00V	1/10W 0	3	
R3697	ERJ3GEYJ473V	1/10W 47K	1	D0GB473JA002
R4403,04	ERJ3RBD103V	1/16W 10K	2	
R4405,06	ERJ3RBD682	1/16W 6.8K	2	ERJ3RBD682V
R4407,08	ERJ3RBD103V	1/16W 10K	2	
R4411	ERJ3GEYJ221V	1/10W 220	1	
R4412,13	ERJ3GEY0R00V	1/10W 0	2	
R4415,16	ERJ3GEY0R00V	1/10W 0	2	
R4418,19	ERJ3GEYJ470V	1/10W 47	2	
R4420,21	ERJ3GEY0R00V	1/10W 0	2	
R6001,02	ERJ3GEYJ332V	1/10W 3.3K	2	D0GB332JA002
R6003,04	ERJ3GEYJ222V	1/10W 2.2K	2	D0GB222JA002
R6005	ERJ3GEYJ333V	1/10W 33K	1	D0GB333JA002
R6006	ERJ3GEYJ103V	1/10W 10K	1	D0GB103JA002
R6007-09	ERJ3GEYJ470V	1/10W 47	3	
R6010	ERJ3GEYJ102V	1/10W 1K	1	
R6011	ERJ3GEYJ103V	1/10W 10K	1	D0GB103JA002
R6012	ERJ3GEYJ221V	1/10W 220	1	
R6013,14	ERJ3GEYJ330V	1/10W 33	2	D0GB330JA002
R6015	ERJ3GEYJ105V	1/10W 1M	1	
R6016	ERJ3GEYJ103V	1/10W 10K	1	D0GB103JA002
R6017	ERJ3GEYJ470V	1/10W 47	1	
R6018	ERJ3GEY0R00V	1/10W 0	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R6019	ERJ3GEYJ333V	1/10W 33K	1	D0GB333JA002
R6022	ERJ3GEYJ103V	1/10W 10K	1	D0GB103JA002
R6024	ERJ3GEYJ330V	1/10W 33	1	D0GB330JA002
R6027	ERJ3GEYJ330V	1/10W 33	1	D0GB330JA002
R6029	ERJ3GEYJ330V	1/10W 33	1	D0GB330JA002
R6701,02	ERJ3GEYJ332V	1/10W 3.3K	2	D0GB332JA002
R6704,05	ERJ3GEYJ470V	1/10W 47	2	
R6706	ERJ3GEYJ333V	1/10W 33K	1	D0GB333JA002
R6707	ERJ3GEYJ104	1/10W 100K	1	
R6708	ERJ3GEY0R00V	1/10W 0	1	
R6709-18	ERJ3GEYJ470V	1/10W 47	10	
R6719	ERJ3GEYJ333V	1/10W 33K	1	D0GB333JA002
R6720,21	ERJ3GEYJ470V	1/10W 47	2	
R6722	ERJ3GEYJ103V	1/10W 10K	1	D0GB103JA002
R6723-26	ERJ3GEYJ470V	1/10W 47	4	
R6727	ERJ3GEY0R00V	1/10W 0	1	
R6728	ERJ3GEYJ104	1/10W 100K	1	
R6729	ERJ3GEYJ470V	1/10W 47	1	
R6730	ERJ3GEYJ102V	1/10W 1K	1	
R6731,32	ERJ3GEYJ470V	1/10W 47	2	
R6733-38	ERJ3GEY0R00V	1/10W 0	6	
R6739	ERJ3GEYJ470V	1/10W 47	1	
R6740,41	ERJ3GEY0R00V	1/10W 0	2	
R6742	ERJ3GEYJ103V	1/10W 10K	1	D0GB103JA002
R6743	ERJ3GEY0R00V	1/10W 0	1	
R6744,45	ERJ3GEYJ470V	1/10W 47	2	
R6746,47	ERJ3GEY0R00V	1/10W 0	2	
R6748	ERJ3GEYJ103V	1/10W 10K	1	D0GB103JA002
R6749	ERJ3GEYJ332V	1/10W 3.3K	1	D0GB332JA002
R6750	ERJ3GEYJ103V	1/10W 10K	1	D0GB103JA002
R6753	ERJ3GEYJ472V	1/10W 4.7K	1	
R6755	ERJ3GEYJ222V	1/10W 2.2K	1	D0GB222JA002
R9003	ERJ3GEYJ101	1/10W 100	1	D0GB101JA002
R9006	ERJ3GEY0R00V	1/10W 0	1	
R9010	ERJ3GEY0R00V	1/10W 0	1	
R9012	ERJ3GEYJ101	1/10W 100	1	D0GB101JA002
R9013	ERJ3GEY0R00V	1/10W 0	1	
R9015	ERJ3GEYJ562V	1/10W 5.6K	1	D0GB562JA002
R36001	ERJ3GEYJ221V	1/10W 220	1	
R36002	ERJ3GEYJ220V	1/10W 22	1	
R37001-04	ERJ3RED560V	1/16W 56	4	
R37005	ERJ3RBD512	1/16W 5.1K	1	
R37006	ERJ3GEYJ105V	1/10W 1M	1	
R37007	ERJ3RBD622	1/16W 6.2K	1	
R37008	ERJ3EKF1800	1/16W 180	1	
R37009	ERJ3GEYJ102V	1/10W 1K	1	
R37010-15	ERJ3GEY0R00V	1/10W 0	6	
R37016	ERJ3GEYJ102V	1/10W 1K	1	
R37017	ERJ3GEYJ472V	1/10W 4.7K	1	
R37018	ERJ3GEYJ105V	1/10W 1M	1	
R37019,20	ERJ3GEY0R00V	1/10W 0	2	
R37021	ERJ3GEYJ102V	1/10W 1K	1	
R37022	ERJ3GEYJ103V	1/10W 10K	1	D0GB103JA002
R37028	ERJ3GEYJ183V	1/10W 18K	1	D0GB183JA002

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R37029,30	ERJ3GEYJ223V	1/10W 22K	2	D0GB223JA002
R37032-38	ERJ3GEY0R00V	1/10W 0	7	
R37044	ERJ3GEYJ221V	1/10W 220	1	
R37046	ERJ3GEYJ102V	1/10W 1K	1	
R37047,48	ERJ3GEYJ103V	1/10W 10K	2	D0GB103JA002
R37049	ERJ3GEYJ101	1/10W 100	1	D0GB101JA002
R37050-52	ERJ3GEYJ103V	1/10W 10K	3	D0GB103JA002
R37053	ERJ3GEY0R00V	1/10W 0	1	
R37054	ERJ3GEYJ472V	1/10W 4.7K	1	
R37055	ERJ3GEYJ330V	1/10W 33	1	D0GB330JA002
R37057,58	ERJ3GEY0R00V	1/10W 0	2	
R37060	ERJ3GEYJ220V	1/10W 22	1	
R37061,62	ERJ3GEY0R00V	1/10W 0	2	
R37063	ERJ3GEYJ103V	1/10W 10K	1	D0GB103JA002
R37064-70	ERJ3GEY0R00V	1/10W 0	7	
R37100	ERJ3GEYJ220V	1/10W 22	1	
R37103	ERJ3GEYJ220V	1/10W 22	1	
R37104-06	ERJ3GEYJ103V	1/10W 10K	3	D0GB103JA002
R37109,10	ERJ3GEYJ101	1/10W 100	2	D0GB101JA002
R50001	ERJ3GEYJ220V	1/10W 22	1	
R50002-04	ERJ3GEYJ470V	1/10W 47	3	
R50005,06	ERJ3GEYJ103V	1/10W 10K	2	D0GB103JA002
R50007-10	ERJ3GEYJ220V	1/10W 22	4	
R50012	ERJ3GEY0R00V	1/10W 0	1	
R50013	ERJ3RBD153	1/16W 15K	1	
R50014	ERJ3GEYJ470V	1/10W 47	1	
R50015	ERJ3RBD153	1/16W 15K	1	
R50017	ERJ3GEYJ390	1/10W 39	1	
R50018	ERJ3GEY0R00V	1/10W 0	1	
R50021	ERJ3GEYJ220V	1/10W 22	1	
R50022	ERJ3GEYJ102V	1/10W 1K	1	
R50023	ERJ3GEYJ330V	1/10W 33	1	D0GB330JA002
R50024	ERJ3GEYJ470V	1/10W 47	1	
R50025	ERJ3RED750V	1/16W 75	1	
R50026	ERJ3GEYJ102V	1/10W 1K	1	
R50027	ERJ3GEYJ330V	1/10W 33	1	D0GB330JA002
R50030	ERJ3RED750V	1/16W 75	1	
R50031	ERJ3GEYJ102V	1/10W 1K	1	
R50032	ERJ3GEYJ330V	1/10W 33	1	D0GB330JA002
R50033	ERJ3GEY0R00V	1/10W 0	1	
R50034	ERJ3RED360V	1/16W 36	1	
R50035	ERJ3GEYJ102V	1/10W 1K	1	
R50036	ERJ3GEYJ330V	1/10W 33	1	D0GB330JA002
R50037	ERJ3GEY0R00V	1/10W 0	1	
R50038	ERJ3RED360V	1/16W 36	1	
R50039	ERJ3GEYJ102V	1/10W 1K	1	
R50040	ERJ3GEYJ330V	1/10W 33	1	D0GB330JA002
R50041	ERJ3GEY0R00V	1/10W 0	1	
R50042	ERJ3RED750V	1/16W 75	1	
R50043	ERJ3RBD273V	1/16W 27K	1	
R50044-47	ERJ3GEY0R00V	1/10W 0	4	
R50048	ERJ3RBD182V	1/16W 1.8K	1	
R50049	ERJ3RBD223	1/16W 22K	1	
R50050	ERJ3GEYJ220V	1/10W 22	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R50052	ERJ3GEY0R00V	1/10W 0	1	
R50053-55	ERJ3GEYJ470V	1/10W 47	3	
R50058	ERJ3GEYJ220V	1/10W 22	1	
R50060	ERJ3GEY0R00V	1/10W 0	1	
R50080	ERJ3GEYJ470V	1/10W 47	1	
R50082-84	ERJ3GEY0R00V	1/10W 0	3	
R50086	ERJ3GEY0R00V	1/10W 0	1	
RA3401-12	D1H82204A024	RESISTOR-RESISTOR	12	
RA3435,36	D1H82204A024	RESISTOR-RESISTOR	2	
RX3201-04	D1H82204A024	RESISTOR-RESISTOR	4	
RX3205-08	D1H83304A024	RESISTOR-RESISTOR	4	
RX3209,10	D1H82204A024	RESISTOR-RESISTOR	2	
RX3211,12	D1H8R0040009	RESISTOR-RESISTOR	2	
RX3501-07	D1H82204A024	RESISTOR-RESISTOR	7	
RX3508-23	D1H83304A024	RESISTOR-RESISTOR	16	
RX3524	D1H84734A024	RESISTOR-RESISTOR	1	
RX3525	D1H81034A024	RESISTOR-RESISTOR	1	
RX3526-29	D1H83304A024	RESISTOR-RESISTOR	4	
RX3530-33	D1H82204A024	RESISTOR-RESISTOR	4	
RX3534-38	D1H81034A024	RESISTOR-RESISTOR	5	
RX3601,02	D1H82204A024	RESISTOR-RESISTOR	2	
RX3603	D1H83304A024	RESISTOR-RESISTOR	1	
RX3604	D1H8R0040009	RESISTOR-RESISTOR	1	
RX3605	D1H83304A024	RESISTOR-RESISTOR	1	
RX3606	D1H8R0040009	RESISTOR-RESISTOR	1	
RX3607,08	D1H83304A024	RESISTOR-RESISTOR	2	
RX3609-14	D1H8R0040009	RESISTOR-RESISTOR	6	
RX3615-22	D1H84734A024	RESISTOR-RESISTOR	8	
RX3631,32	D1H8R0040009	RESISTOR-RESISTOR	2	
RX3639	D1H8R0040009	RESISTOR-RESISTOR	1	
RX3642-52	D1H8R0040009	RESISTOR-RESISTOR	11	
RX3653-64	D1H82204A024	RESISTOR-RESISTOR	12	
RX6001,02	D1H83334A024	RESISTOR-RESISTOR	2	
RX6003-05	D1H83324A024	RESISTOR-RESISTOR	3	
RX6006	D1H81034A024	RESISTOR-RESISTOR	1	
RX6007,08	D1H83304A024	RESISTOR-RESISTOR	2	
RX6009-12	D1H84704A024	RESISTOR-RESISTOR	4	
RX6013-17	D1H83304A024	RESISTOR-RESISTOR	5	
RX6018	D1H82204A024	RESISTOR-RESISTOR	1	
RX6019	D1H83304A024	RESISTOR-RESISTOR	1	
RX6020	D1H84704A024	RESISTOR-RESISTOR	1	
RX6021	D1H83304A024	RESISTOR-RESISTOR	1	
RX6022-24	D1H84704A024	RESISTOR-RESISTOR	3	
RX6025	D1H83304A024	RESISTOR-RESISTOR	1	
RX6026	D1H84704A024	RESISTOR-RESISTOR	1	
RX6027	D1H81034A024	RESISTOR-RESISTOR	1	
RX6028-33	D1H84704A024	RESISTOR-RESISTOR	6	
RX6034-48	D1H83304A024	RESISTOR-RESISTOR	15	
RX6701,02	D1H83324A024	RESISTOR-RESISTOR	2	
RX6703	D1H81034A024	RESISTOR-RESISTOR	1	
RX6704	D1H84724A024	RESISTOR-RESISTOR	1	
RX6705	D1H81034A024	RESISTOR-RESISTOR	1	

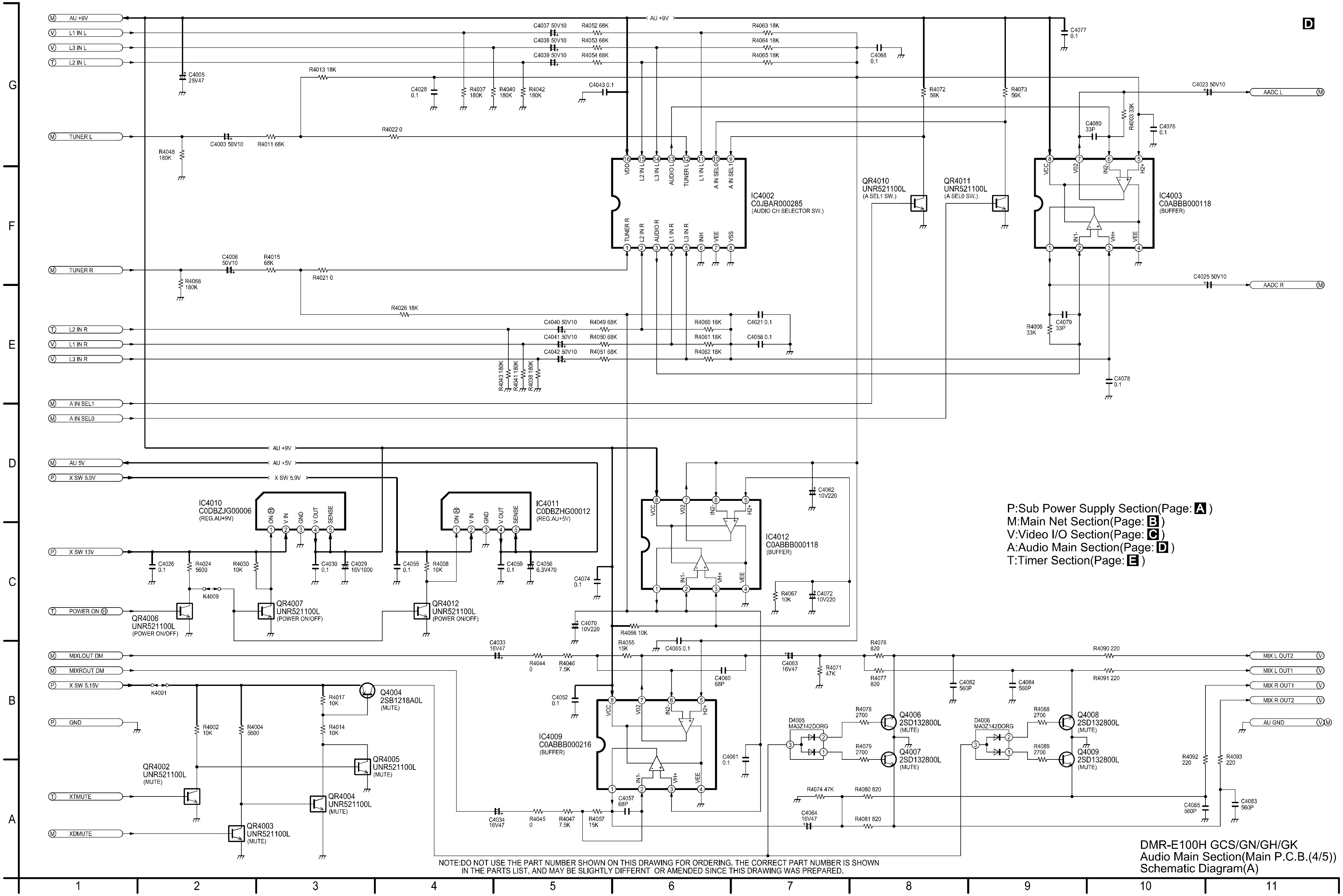
Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
RX6706-13	D1H84704A024	RESISTOR-RESISTOR	8	
RX6714	D1H81034A024	RESISTOR-RESISTOR	1	
RX6715-19	D1H84704A024	RESISTOR-RESISTOR	5	
RX6720	D1H81034A024	RESISTOR-RESISTOR	1	
RX6721-28	D1H84704A024	RESISTOR-RESISTOR	8	
RX6729	D1H83334A024	RESISTOR-RESISTOR	1	
RX6730	D1H84704A024	RESISTOR-RESISTOR	1	
RX6731	D1H82224A024	RESISTOR-RESISTOR	1	
RX6732	D1H84704A024	RESISTOR-RESISTOR	1	
RX6733	D1H83334A024	RESISTOR-RESISTOR	1	
RX6735-38	D1H84704A024	RESISTOR-RESISTOR	4	
RX6739,40	D1H83334A024	RESISTOR-RESISTOR	2	
RX6741-44	D1H83324A024	RESISTOR-RESISTOR	4	
RX6745	D1H83334A024	RESISTOR-RESISTOR	1	
RX6746	D1H81034A024	RESISTOR-RESISTOR	1	
RX6747	D1H83324A024	RESISTOR-RESISTOR	1	
RX6748,49	D1H84724A024	RESISTOR-RESISTOR	2	
RX37001-05	D1H81034A024	RESISTOR-RESISTOR	5	
RX37006-14	D1H82204A024	RESISTOR-RESISTOR	9	
RX37015-18	D1H81034A024	RESISTOR-RESISTOR	4	
RX50001,02	D1H82204A024	RESISTOR-RESISTOR	2	
RX50009-16	D1H82204A024	RESISTOR-RESISTOR	8	
RX50017	D1H81034A024	RESISTOR-RESISTOR	1	
RX50018-25	D1H82204A024	RESISTOR-RESISTOR	8	
RX50026-29	D1H84704A024	RESISTOR-RESISTOR	4	
T37001	J0JBD0000043	TRANSFORMER	1	
X3202	H0J540500006	CRYSTAL OSCILLATOR	1	
X6001	H2D330500001	CRYSTAL OSCILLATOR	1	
X37001	H0J245500020	CRYSTAL OSCILLATOR	1	H0J245500025
■	06	REP3540EA		
C6801	ECJ1VB1C104K	16V 0.1U	1	
C6803-06	ECJ1VB1C104K	16V 0.1U	4	
C6808-10	ECJ1VB1C104K	16V 0.1U	3	
C6811,12	ECJ1VB1H103K	50V 0.01U	2	
C6813	EEEHB1C470P	16V 47P	1	
C6814	EEEHB0J101P	6.3V 100P	1	
C6815	ECJ1VB1H103K	50V 0.01U	1	
C6816	ECJ1VB1C104K	16V 0.1U	1	
FL6801-08	F1H0J1050018	FILTER	8	
IC6801	TC7W32FUTL	IC	1	C0JBAE000098
IC6802	C0JBAZ001166	IC	1	
IC6803	C0JBAZ001959	IC	1	
IC6804	C0JBAZ001988	IC	1	
IC6805	C0JBAZ001859	IC	1	
IC6806	C0JBAZ000608	IC	1	
IC6807	C0DBCHG00003	IC	1	
IC6809	C0EBJ0000153	IC	1	
IC6810	C0JBAZ001859	IC	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
K6801	ERJ3GEY0R00V	1/10W 0	1	
LB6801	J0JHC0000032	COIL	1	
LB6802,03	J0JHC0000045	COIL	2	
P6801	K1KB70A00036	CONNECTOR(70P)	1	
P6802	K1NA68E00065	CONNECTOR(68P)	1	
P6803	K1NA09E00027	CONNECTOR(9P)	1	
Q6801	UN5213TX	TRANSISTOR	1	UNR521300L
QR6801	UN5211	TRANSISTOR	1	UNR5211
R6801,02	ERJ3GEYJ330V	1/10W 33	2	D0GB330JA002
R6803	ERJ3GEYJ222V	1/10W 2.2K	1	D0GB222JA002
R6804,05	ERJ3GEYJ473V	1/10W 47K	2	D0GB473JA002
R6806	ERJ3GEYJ104	1/10W 100K	1	
R6807	ERJ3GEYJ473V	1/10W 47K	1	D0GB473JA002
R6808	ERJ3GEYJ101	1/10W 100	1	D0GB101JA002
R6809	ERJ3GEYJ222V	1/10W 2.2K	1	D0GB222JA002
R6810,11	ERJ3GEYJ220V	1/10W 22	2	
R6812,13	ERJ3GEYJ223V	1/10W 22K	2	D0GB223JA002
R6814	ERJ3GEYJ103V	1/10W 10K	1	D0GB103JA002
R6815-18	ERJ3GEYJ223V	1/10W 22K	4	D0GB223JA002
R6819	ERJ3GEYJ103V	1/10W 10K	1	D0GB103JA002
R6820-27	ERJ3GEYJ223V	1/10W 22K	8	D0GB223JA002
R6828	ERJ3GEYJ123V	1/10W 12K	1	
RX6801-12	D1H83304A024	RESISTOR-RESISTOR	12	
RX6813	D1H82204A024	RESISTOR-RESISTOR	1	
RX6814-17	D1H84734A024	RESISTOR-RESISTOR	4	
RX6818	D1H81234A024	RESISTOR-RESISTOR	1	
■	07	REP3604A		
P9801	K1KB40A00124	CONNECTOR(40P)	1	
P9802	K1MN40B00022	CONNECTOR(40P)	1	
■	08	REP3542A		
P9801	K1KB40A00118	CONNECTOR(40P)	1	
P9802	K1MN40B00022	CONNECTOR(40P)	1	
■	09	REP3540AB		
P37002	K1KA08B00213	CONNECTOR(8P)	1	
P37003	K2HZ104B0010	CONNECTOR(104P)	1	
■	10	REP3598CB		
C7001	ECJ1VF1A105Z	10V 1U	1	
C7003	ECJ1VB1C104K	16V 0.1U	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
C7004	ECJ1VB1H103K	50V 0.01U	1	
C7005,06	ECJ1VC1H221J	50V 220P	2	
C7009,10	ECJ1VC1H470J	50V 47P	2	
IR7001	PNA4618M13VT	REMOTE SENSOR	1	
JK7001	K1U413A00006	JACK,L2	1	
LB7001-05	VLP0323A601T	COIL	5	J0JCC0000103
P7001	K1KA20B00132	CONNECTOR(20P)	1	
R7002	ERJ3GEYJ102V	1/10W 1K	1	
R7008-10	ERJ3GEYJ750	1/10W 75	3	
R7011	ERDS2FJ330	1/4W 33	1	
S7003	EVQ11G07K	SWITCH(POWER)	1	
W501,02	ERJ3GEY0R00V	1/10W 0	2	
■	11	REP3598CA		
D7801	B3ABA0000396	DIODE	1	
D7802	LNJ201LPQJA	LED	1	
D7804	LNJ201LPQJA	LED	1	
P7801	K1KA10B00196	CONNECTOR(10P)	1	
QR7801-05	UN2214	TRANSISTOR	5	UNR2214
R7801	ERJ3RBD122V	1/16W 1.2K	1	
R7802	ERJ3RBD152V	1/16W 1.5K	1	
R7803	ERJ3RBD222V	1/16W 2.2K	1	
R7804	ERJ3RBD332	1/16W 3.3K	1	
R7807	ERJ3RBD122V	1/16W 1.2K	1	
R7808	ERJ3RBD152V	1/16W 1.5K	1	
R7809	ERJ3RBD222V	1/16W 2.2K	1	
R7810	ERJ3RBD332	1/16W 3.3K	1	
R7811	ERJ3RBD562V	1/16W 5.6K	1	
R7812	ERJ3RBD113V	1/16W 10K	1	
R7814	ERJ3RBD122V	1/16W 1.2K	1	
R7815	ERJ3RBD152V	1/16W 1.5K	1	
R7821-25	ERJ3GEYJ221V	1/10W 220	5	
S7802	EVQ11G07K	SWITCH(REC)	1	
S7803	EVQ11G07K	SWITCH(CH-DOWN)	1	
S7804	EVQ11G07K	SWITCH(SKIP-R)	1	
S7805	EVQ11G07K	SWITCH(STOP)	1	
S7808	EVQ11G07K	SWITCH(CH-UP)	1	
S7809	EVQ11G07K	SWITCH(MODE)	1	
S7810	EVQ11G07K	SWITCH(ERASE)	1	
S7811	EVQ11G07K	SWITCH(TIME-WARP)	1	
S7812	EVQ11G07K	SWITCH(PLAY)	1	
S7813	EVQ11G07K	SWITCH(TIMER-REC)	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
S7815	EVQ11G07K	SWITCH(EXT-LINK)	1	
S7816	EVQ11G07K	SWITCH(OPEN/CLOSE)	1	
S7817	K0H1BA000372	SWITCH(DVD)	1	
S7818	K0H1BA000372	SWITCH(HDD)	1	
■	13	JIG TOOLS		
	RFKZ0181	EXTENTION CABLE(70PIN)		SD CARD-DIGITAL
	RFKZ0164	EXTENTION CABLE(30PIN~3)		MAIN-DIGITAL
	RFKZ0125	EXTENTION CABLE(40PIN)		RAM-DIGITAL
	RFKZ0165	EXTENTION CABLE(20PIN)		MAIN-FRONT(L)
	RFKZ0170	EXTENTION CABLE(19PIN)		MAIN-POWER SUPPLY
	RFKZ0171	EXTENTION CABLE(15PIN)		MAIN-POWER SUPPLY
	RFKZ0166	EXTENTION CABLE(10PIN)		POWER SUPPLY-FRONT(R)
	RFKZ0169	EXTENTION CABLE(4PIN)		POWER SUPPLY-HDD
	RFKZ0168	EXTENTION CABLE(3PIN)		FAN MOTOR

18. Schematic Diagram for printing with A4 size


D
AU +9V
L1 IN L
L3 IN L
L2 IN L
TUNER L
TUNER R
L2 IN R
L1 IN R
L3 IN R
A IN SEL1
A IN SEL0
AU 5V
X SW 5.9V
X SW 13V
POWER ON
MIXLOUT DM
MIXROUT DM
X SW 5.15V
GND
XTMUTE
XDMUTE
AADC L
AADC R
MIX L OUT2
MIX L OUT1
MIX R OUT1
MIX R OUT2
AU GND
AU +9V
AU +5V
X SW 5.9V
IC4002
C0JBAR000285
(AUDIO CH SELECTOR SW.)
VDD
L2 IN L
L3 IN L
AUDIO L
TUNER L
L1 IN L
A IN SEL0
A IN SEL1
TUNER R
L2 IN R
AUDIO R
L1 IN R
L3 IN R
INH
VEE
VSS
IC4003
C0ABBB000118
(BUFFER)
IC4012
C0ABBB000118
(BUFFER)
IC4009
C0ABBB000216
(BUFFER)
VCC
V02
IN2-
H2+
IN1-
VH+
VEE
IC4010
C0DBZJG00006
(REG.AU+9V)
IC4011
C0DBZHG00012
(REG.AU+5V)
ON
V IN
GND
V OUT
SENSE
QR4010
UNR521100L
(A SEL1 SW.)
QR4011
UNR521100L
(A SEL0 SW.)
QR4006
UNR521100L
(POWER ON/OFF)
QR4007
UNR521100L
(POWER ON/OFF)
QR4012
UNR521100L
(POWER ON/OFF)
Q4004
2SB1218A0L
(MUTE)
QR4005
UNR521100L
(MUTE)
QR4002
UNR521100L
(MUTE)
QR4004
UNR521100L
(MUTE)
QR4003
UNR521100L
(MUTE)
Q4006
2SD132800L
(MUTE)
Q4007
2SD132800L
(MUTE)
Q4008
2SD132800L
(MUTE)
Q4009
2SD132800L
(MUTE)
D4005
MA3Z142DORG
D4006
MA3Z142DORG
K4009
K4001
C4005 25V47
C4037 50V10
C4038 50V10
C4039 50V10
R4052 68K
R4053 68K
R4054 68K
R4063 18K
R4064 18K
R4065 18K
C4068 0.1
C4077 0.1
R4013 18K
C4028 0.1
R4037 180K
R4040 180K
R4042 180K
C4043 0.1
R4072 56K
R4073 56K
C4023 50V10
C4080 33P
R4003 33K
C4076 0.1
R4048 180K
C4003 50V10
R4011 68K
R4022 0
C4006 50V10
R4015 68K
R4021 0
R4068 180K
R4026 18K
C4040 50V10
C4041 50V10
C4042 50V10
R4049 68K
R4050 68K
R4051 68K
R4060 18K
R4061 18K
R4062 18K
C4021 0.1
C4058 0.1
R4043 180K
R4041 180K
R4038 180K
C4025 50V10
R4006 33K
C4079 33P
C4078 0.1
C4062 10V220
C4026 0.1
R4024 5600
R4030 10K
C4030 0.1
C4029 16V1000
C4055 0.1
R4008 10K
C4059 0.1
C4056 6.3V470
C4074 0.1
R4067 10K
C4072 10V220
C4070 10V220
R4066 10K
C4033 16V47
R4044 0
R4046 7.5K
R4055 15K
C4065 0.1
C4060 68P
C4063 16V47
R4071 47K
R4076 820
R4077 820
R4090 220
R4091 220
C4082 560P
C4084 560P
C4052 0.1
R4017 10K
R4002 10K
R4004 5600
R4014 10K
R4078 2700
R4079 2700
R4088 2700
R4089 2700
C4061 0.1
R4092 220
R4093 220
R4074 47K
R4080 820
R4081 820
C4064 16V47
C4085 560P
C4083 560P
C4034 16V47
R4045 0
R4047 7.5K
R4057 15K
C4057 68P
A
B
C
D
E
F
G
1
2
3
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9
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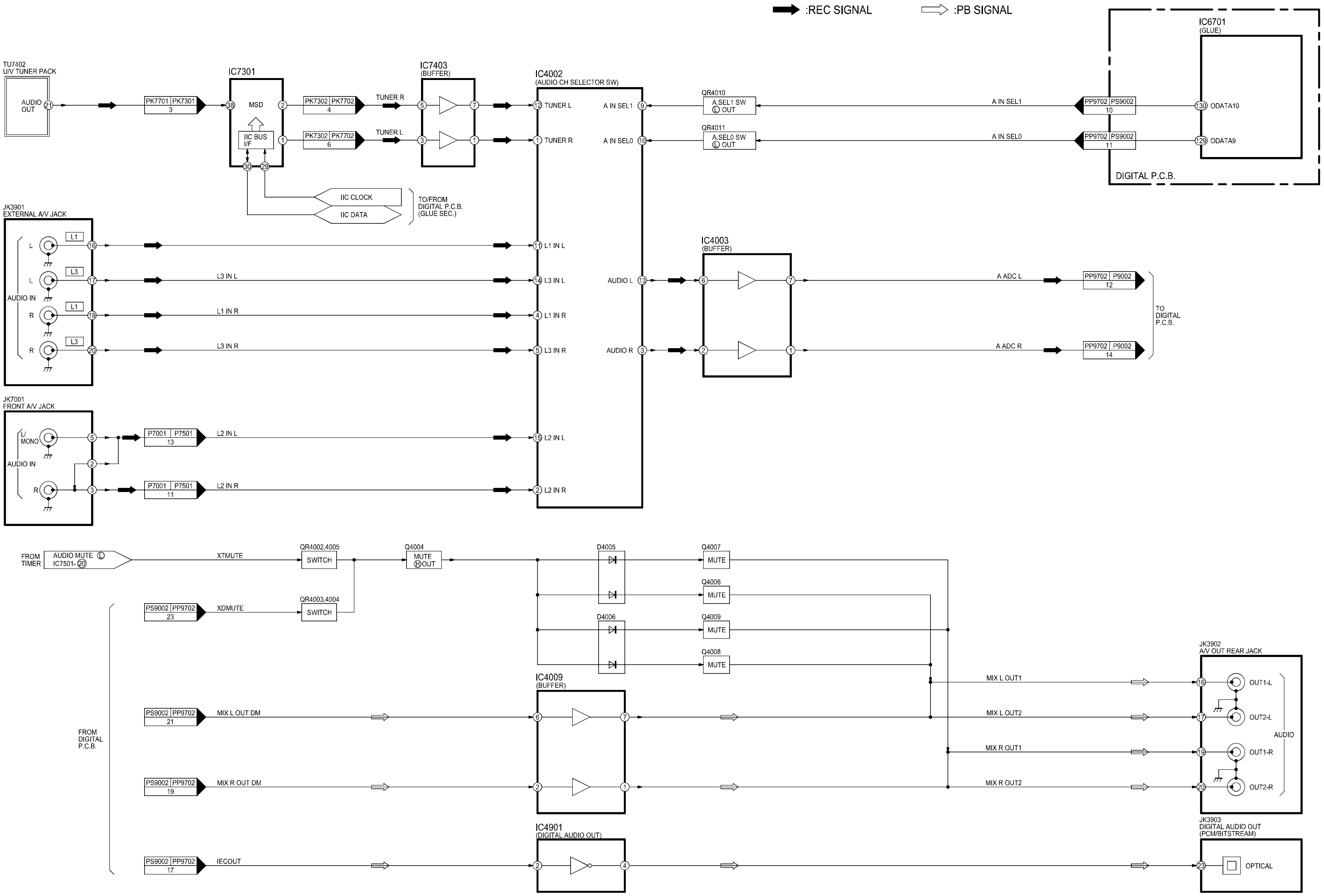
11

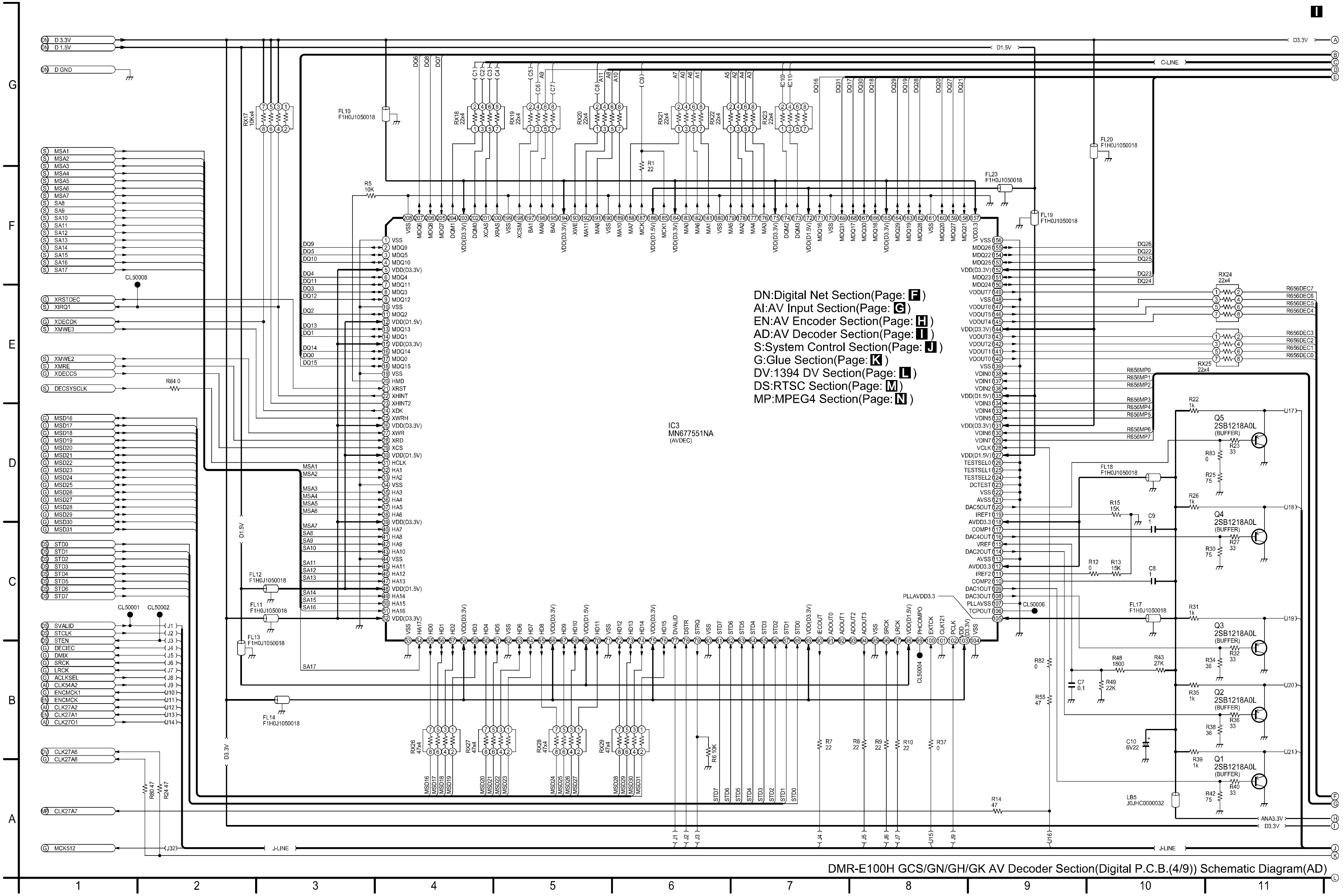
P:Sub Power Supply Section(Page: **A**)
M:Main Net Section(Page: **B**)
V:Video I/O Section(Page: **C**)
A:Audio Main Section(Page: **D**)
T:Timer Section(Page: **E**)

NOTE:DO NOT USE THE PART NUMBER SHOWN ON THIS DRAWING FOR ORDERING. THE CORRECT PART NUMBER IS SHOWN IN THE PARTS LIST, AND MAY BE SLIGHTLY DIFFERNT OR AMENDED SINCE THIS DRAWING WAS PREPARED.

DMR-E100H GCS/GN/GH/GK
Audio Main Section(Main P.C.B.(4/5))
Schematic Diagram(A)


:REC SIGNAL
:PB SIGNAL
TU7402
U/V TUNER PACK
AUDIO OUT
PK7701 PK7301 3
IC7301
MSD
IIC BUS I/F
PK7302 PK7702 4
PK7302 PK7702 6
TUNER R
TUNER L
IC7403 (BUFFER)
IC4002 (AUDIO CH SELECTOR SW)
TUNER L
TUNER R
A IN SEL1
A IN SEL0
L1 IN L
L3 IN L
L1 IN R
L3 IN R
L2 IN L
L2 IN R
AUDIO L
AUDIO R
IIC CLOCK
IIC DATA
TO/FROM DIGITAL P.C.B. (GLUE SEC.)
QR4010
A.SEL1 SW Ⓛ OUT
QR4011
A.SEL0 SW Ⓛ OUT
A IN SEL1
A IN SEL0
PP9702 PS9002 10
PP9702 PS9002 11
IC6701 (GLUE)
ODATA10
ODATA9
DIGITAL P.C.B.
JK3901
EXTERNAL A/V JACK
AUDIO IN
L
R
L1
L3
IC4003 (BUFFER)
A ADC L
A ADC R
PP9702 P9002 12
PP9702 P9002 14
TO DIGITAL P.C.B.
JK7001
FRONT A/V JACK
L/ MONO
AUDIO IN
P7001 P7501 13
P7001 P7501 11
FROM TIMER
AUDIO MUTE Ⓛ IC7501-⑳
XTMUTE
QR4002,4005 SWITCH
Q4004 MUTE Ⓗ OUT
PS9002 PP9702 23
XDMUTE
QR4003,4004 SWITCH
D4005
D4006
Q4007 MUTE
Q4006 MUTE
Q4009 MUTE
Q4008 MUTE
FROM DIGITAL P.C.B.
IC4009 (BUFFER)
PS9002 PP9702 21
MIX L OUT DM
PS9002 PP9702 19
MIX R OUT DM
MIX L OUT1
MIX L OUT2
MIX R OUT1
MIX R OUT2
JK3902
A/V OUT REAR JACK
OUT1-L
OUT2-L
OUT1-R
OUT2-R
AUDIO
IC4901 (DIGITAL AUDIO OUT)
PS9002 PP9702 17
IECOUT
JK3903
DIGITAL AUDIO OUT (PCM/BITSTREAM)
OPTICAL

DMR-E100H GCS/GN/GH/GK
Analog Audio Block Diagram


I
IC3
MN677551NA
(AVDEC)
DN:Digital Net Section(Page: F)
AI:AV Input Section(Page: G)
EN:AV Encoder Section(Page: H)
AD:AV Decoder Section(Page: I)
S:System Control Section(Page: J)
G:Glue Section(Page: K)
DV:1394 DV Section(Page: L)
DS:RTSC Section(Page: M)
MP:MPEG4 Section(Page: N)
D 3.3V
D 1.5V
D GND
D3.3V
D1.5V
C-LINE
J-LINE
ANA3.3V
MSA1
MSA2
MSA3
MSA4
MSA5
MSA6
MSA7
SA8
SA9
SA10
SA11
SA12
SA13
SA14
SA15
SA16
SA17
XRSTDEC
XIRQ1
XDECDK
XMWE3
XMWE2
XMRE
XDECCS
DECSYSCLK
MSD16
MSD17
MSD18
MSD19
MSD20
MSD21
MSD22
MSD23
MSD24
MSD25
MSD26
MSD27
MSD28
MSD29
MSD30
MSD31
STD0
STD1
STD2
STD3
STD4
STD5
STD6
STD7
SVALID
STCLK
STEN
DECIEC
DMIX
SRCK
LRCK
ACLKSEL
CLK54A2
ENCMCK1
ENCMCK
CLK27A2
CLK27A1
CLK27O1
CLK27A6
CLK27A8
CLK27A7
MCK512
CL50008
CL50001
CL50002
CL50004
CL50006
RX17 10Kx4
RX18 22x4
RX19 22x4
RX20 22x4
RX21 22x4
RX22 22x4
RX23 22x4
RX24 22x4
RX25 22x4
RX26 47x4
RX27 47x4
RX28 47x4
RX29 47x4
FL10 F1H0J1050018
FL11 F1H0J1050018
FL12 F1H0J1050018
FL13 F1H0J1050018
FL14 F1H0J1050018
FL17 F1H0J1050018
FL18 F1H0J1050018
FL19 F1H0J1050018
FL20 F1H0J1050018
FL23 F1H0J1050018
R1 22
R5 10K
R6 10K
R7 22
R8 22
R9 22
R10 22
R37 0
R84 0
R80 47
R24 47
R14 47
R82 0
R55 47
R48 1800
R49 22K
R43 27K
R12 0
R13 15K
R15 15K
C7 0.1
C8 1
C9 1
C10 6V22
LB5 J0JHC0000032
Q5 2SB1218A0L (BUFFER)
Q4 2SB1218A0L (BUFFER)
Q3 2SB1218A0L (BUFFER)
Q2 2SB1218A0L (BUFFER)
Q1 2SB1218A0L (BUFFER)
R22 1k
R23 33
R83 0
R25 75
R26 1k
R27 33
R30 75
R31 1k
R32 33
R34 36
R35 1k
R36 33
R38 36
R39 1k
R40 33
R42 75
R656DEC7
R656DEC6
R656DEC5
R656DEC4
R656DEC3
R656DEC2
R656DEC1
R656DEC0
R656MP0
R656MP1
R656MP2
R656MP3
R656MP4
R656MP5
R656MP6
R656MP7
PLLAVDD3,3
G
F
E
D
C
B
A
1
2
3
4
5
6
7
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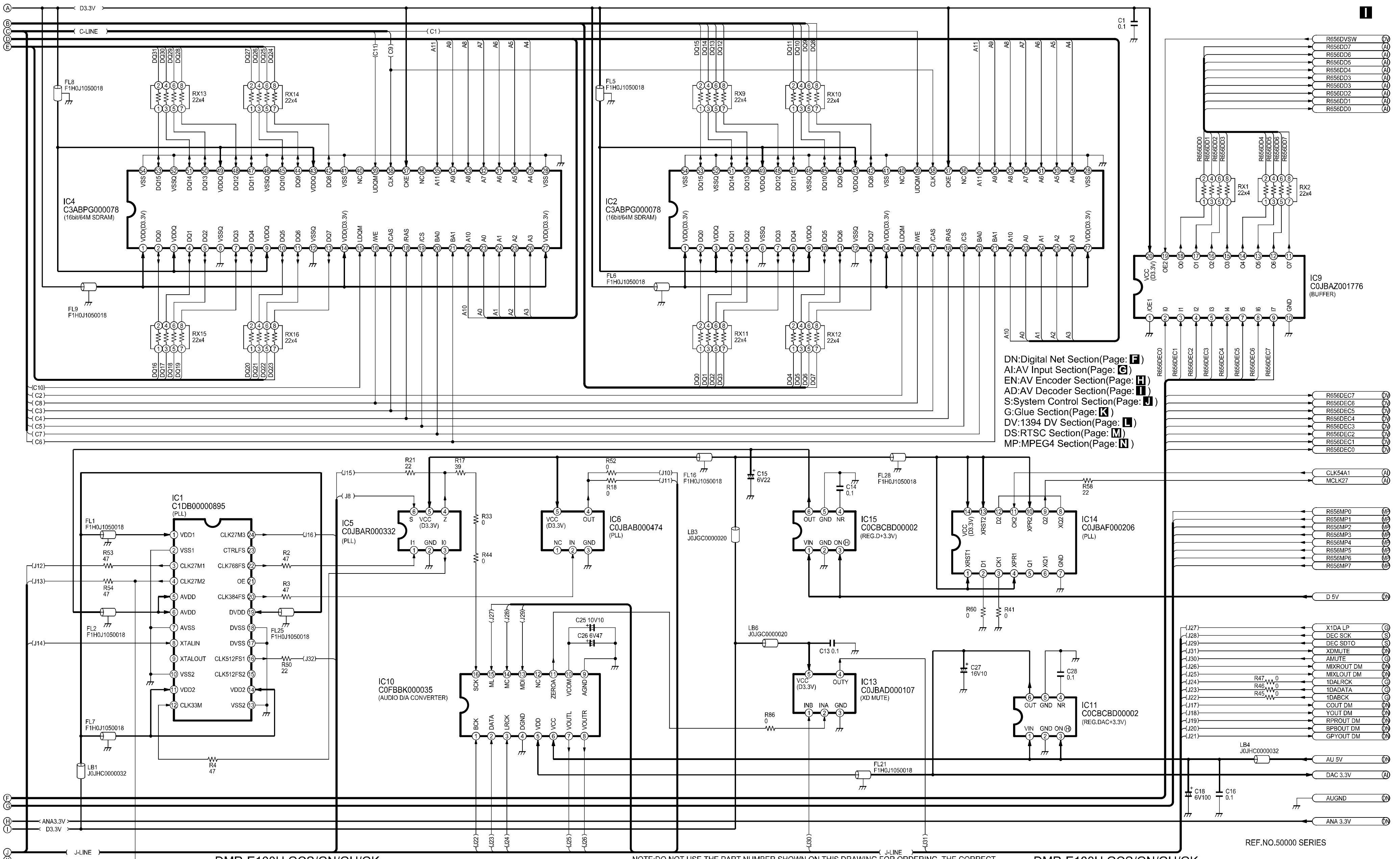
9
10
11

DMR-E100H GCS/GN/GH/GK AV Decoder Section(Digital P.C.B.(4/9)) Schematic Diagram(AD)


I
IC4
C3ABPG000078
(16bit/64M SDRAM)
IC2
C3ABPG000078
(16bit/64M SDRAM)
IC9
C0JBAZ001776
(BUFFER)
IC1
C1DB00000895
(PLL)
IC5
C0JBAR000332
(PLL)
IC6
C0JBAB000474
(PLL)
IC15
C0CBCBD00002
(REG.D+3.3V)
IC14
C0JBAF000206
(PLL)
IC10
C0FBBK000035
(AUDIO D/A CONVERTER)
IC13
C0JBAD000107
(XD MUTE)
IC11
C0CBCBD00002
(REG.DAC+3.3V)
RX13 22x4
RX14 22x4
RX15 22x4
RX16 22x4
RX9 22x4
RX10 22x4
RX11 22x4
RX12 22x4
RX1 22x4
RX2 22x4
FL8 F1H0J1050018
FL9 F1H0J1050018
FL5 F1H0J1050018
FL6 F1H0J1050018
FL1 F1H0J1050018
FL2 F1H0J1050018
FL7 F1H0J1050018
FL25 F1H0J1050018
FL16 F1H0J1050018
FL28 F1H0J1050018
FL21 F1H0J1050018
LB1 J0JHC0000032
LB3 J0JGC0000020
LB6 J0JGC0000020
LB4 J0JHC0000032
C1 0.1
C14 0.1
C15 6V22
C13 0.1
C25 10V10
C26 6V47
C27 16V10
C28 0.1
C18 6V100
C16 0.1
D3.3V
C-LINE
J-LINE
ANA3.3V
R656DVSW
R656DD7
R656DD6
R656DD5
R656DD4
R656DD3
R656DD2
R656DD1
R656DD0
R656DEC7
R656DEC6
R656DEC5
R656DEC4
R656DEC3
R656DEC2
R656DEC1
R656DEC0
CLK54A1
MCLK27
R656MP0
R656MP1
R656MP2
R656MP3
R656MP4
R656MP5
R656MP6
R656MP7
D 5V
X1DA LP
DEC SCK
DEC SDTO
XDMUTE
AMUTE
MIXROUT DM
MIXLOUT DM
1DALRCK
1DADATA
1DABCK
COUT DM
YOUT DM
RPROUT DM
BPBOUT DM
GPYOUT DM
AU 5V
DAC 3.3V
AUGND
ANA 3.3V

DN:Digital Net Section(Page: **F**)
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DV:1394 DV Section(Page: **L**)
DS:RTSC Section(Page: **M**)
MP:MPEG4 Section(Page: **N**)

REF.NO.50000 SERIES

DMR-E100H GCS/GN/GH/GK
AV Decoder Section(Digital P.C.B.(4/9)) Schematic Diagram(AD)

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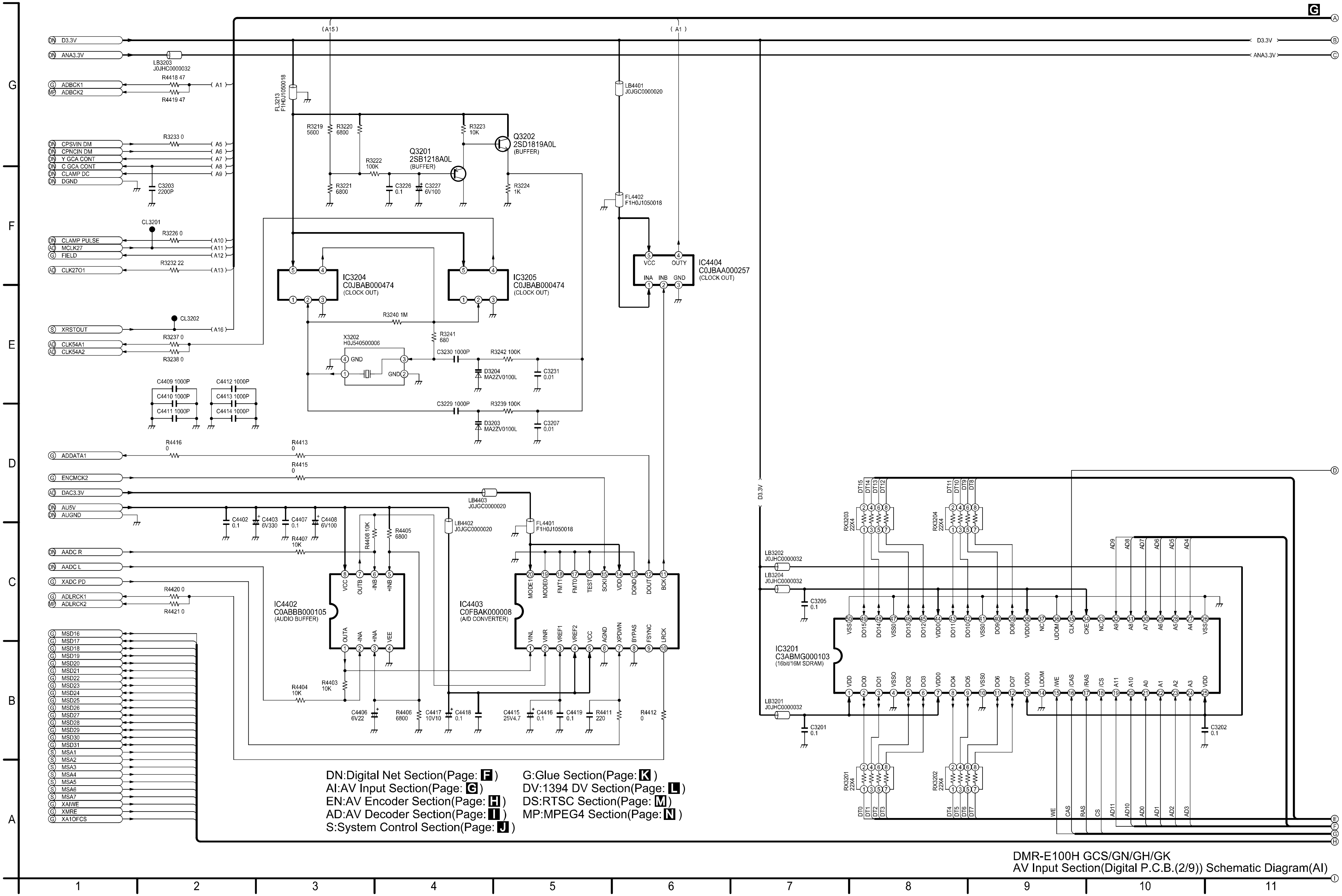
DMR-E100H GCS/GN/GH/GK
AV Decoder Section(Digital P.C.B.(4/9)) Schematic Diagram(AD)

12 13 14 15 16 17 18 19 20 21 22


G
D3.3V
ANA3.3V
LB3203 J0JHC0000032
ADBCK1
ADBCK2
R4418 47
R4419 47
CPSVIN DM
CPNCIN DM
Y GCA CONT
C GCA CONT
CLAMP DC
DGND
R3233 0
C3203 2200P
CL3201
CLAMP PULSE
MCLK27
FIELD
CLK27O1
R3226 0
R3232 22
XRSTOUT
CL3202
CLK54A1
CLK54A2
R3237 0
R3238 0
FL3213 F1H0J1050018
R3219 5600
R3220 6800
R3221 6800
R3222 100K
C3226 0.1
C3227 6V100
R3223 10K
Q3201 2SB1218A0L (BUFFER)
Q3202 2SD1819A0L (BUFFER)
R3224 1K
IC3204 C0JBAB000474 (CLOCK OUT)
IC3205 C0JBAB000474 (CLOCK OUT)
R3240 1M
R3241 680
X3202 H0J540500006
GND
C3230 1000P
R3242 100K
D3204 MA2ZV0100L
C3231 0.01
C3229 1000P
R3239 100K
D3203 MA2ZV0100L
C3207 0.01
C4409 1000P
C4410 1000P
C4411 1000P
C4412 1000P
C4413 1000P
C4414 1000P
LB4401 J0JGC0000020
FL4402 F1H0J1050018
IC4404 C0JBAA000257 (CLOCK OUT)
VCC
OUTY
INA
INB
ADDATA1
R4416 0
R4413 0
ENCMCK2
R4415 0
DAC3.3V
LB4403 J0JGC0000020
AU5V
AUGND
C4402 0.1
C4403 6V330
C4407 0.1
C4408 6V100
LB4402 J0JGC0000020
FL4401 F1H0J1050018
R4408 10K
R4405 6800
R4407 10K
AADC R
AADC L
XADC PD
ADLRCK1
ADLRCK2
R4420 0
R4421 0
IC4402 C0ABBB000105 (AUDIO BUFFER)
VCC
OUTB
-INB
+INB
OUTA
-INA
+INA
VEE
IC4403 C0FBAK000008 (A/D CONVERTER)
MODE1
MODE0
FMT1
FMT0
TEST
SCKI
VDD
DGND
DOUT
BCK
VINL
VINR
VREF1
VREF2
AGND
XPDWN
BYPAS
FSYNC
LRCK
R4404 10K
R4403 10K
C4406 6V22
R4406 6800
C4417 10V10
C4418 0.1
C4415 25V4.7
C4416 0.1
C4419 0.1
R4411 220
R4412 0
MSD16
MSD17
MSD18
MSD19
MSD20
MSD21
MSD22
MSD23
MSD24
MSD25
MSD26
MSD27
MSD28
MSD29
MSD30
MSD31
MSA1
MSA2
MSA3
MSA4
MSA5
MSA6
MSA7
XAIWE
XMRE
XA1OFCS
LB3202 J0JHC0000032
LB3204 J0JHC0000032
C3205 0.1
LB3201 J0JHC0000032
C3201 0.1
RX3203 22X4
RX3204 22X4
RX3201 22X4
RX3202 22X4
IC3201 C3ABMG000103 (16bit/16M SDRAM)
VSS
DQ15
DQ14
VSSQ
DQ13
DQ12
VDDQ
DQ11
DQ10
DQ9
DQ8
NC
UDQM
CLK
CKE
A9
A8
A7
A6
A5
A4
VDD
DQ0
DQ1
DQ2
DQ3
DQ4
DQ5
DQ6
DQ7
LDQM
WE
CAS
RAS
CS
A11
A10
A0
A1
A2
A3
C3202 0.1
DT0
DT1
DT2
DT3
DT4
DT5
DT6
DT7
DT8
DT9
DT10
DT11
DT12
DT13
DT14
DT15
AD0
AD1
AD2
AD3
AD4
AD5
AD6
AD7
AD8
AD9
AD10
AD11
(A15)
(A1)
1
2
3
4
5
6
7
8
9
10
11
A
B
C
D
E
F
G
H
I

DN:Digital Net Section(Page: F)
AI:AV Input Section(Page: G)
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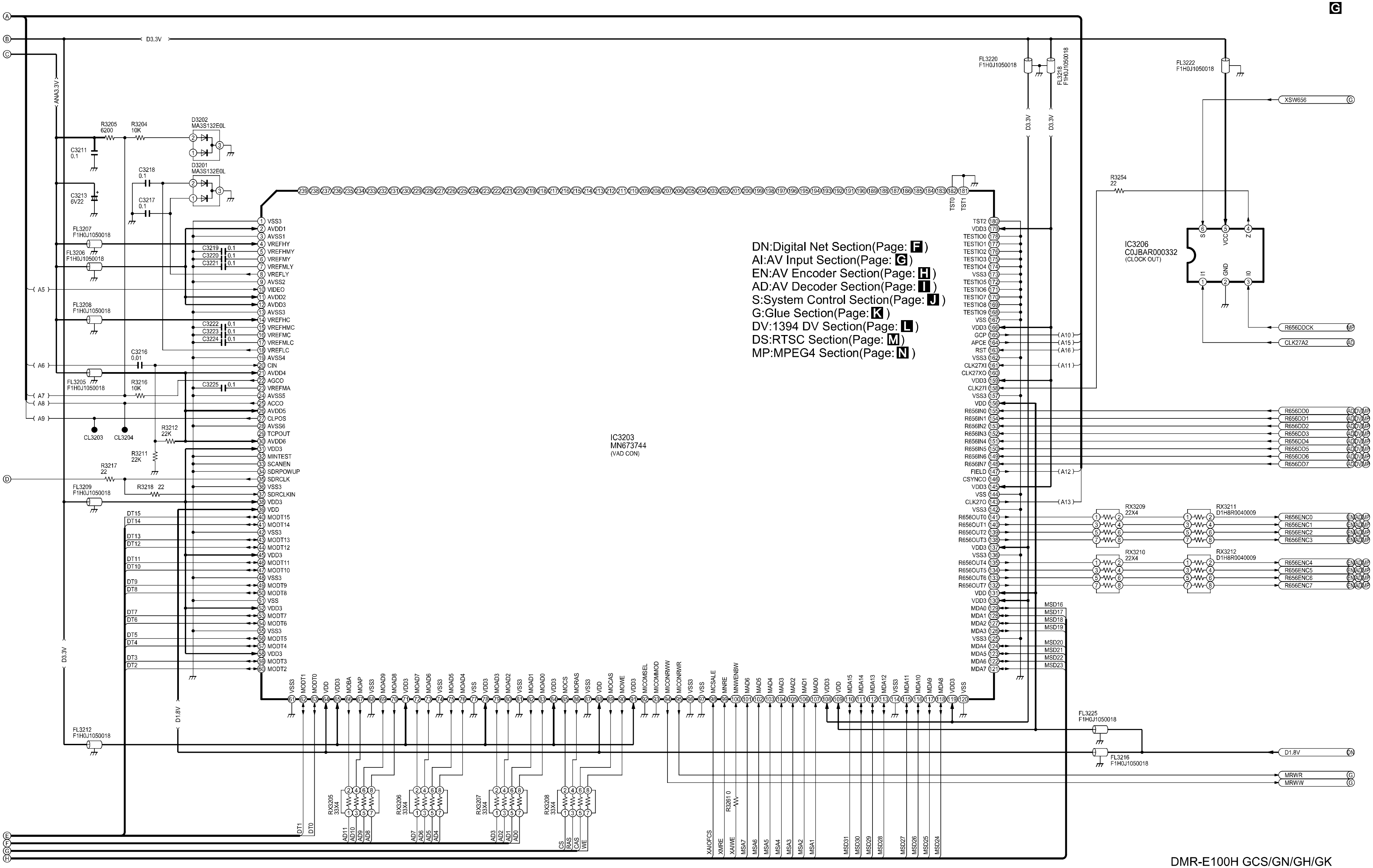
AD:AV Decoder Section(Page: I)
S:System Control Section(Page: J)

G:Glue Section(Page: K)
DV:1394 DV Section(Page: L)
DS:RTSC Section(Page: M)
MP:MPEG4 Section(Page: N)

DMR-E100H GCS/GN/GH/GK
AV Input Section(Digital P.C.B.(2/9)) Schematic Diagram(AI)


G
A
B
C
D
E
F
G
H
I
D3.3V
ANA3.3V
R3205 6200
R3204 10K
D3202 MA3S132E0L
D3201 MA3S132E0L
C3211 0.1
C3213 6V22
C3218 0.1
C3217 0.1
FL3207 F1H0J1050018
FL3206 F1H0J1050018
FL3208 F1H0J1050018
FL3205 F1H0J1050018
FL3209 F1H0J1050018
FL3212 F1H0J1050018
C3219 0.1
C3220 0.1
C3221 0.1
C3222 0.1
C3223 0.1
C3224 0.1
C3225 0.1
C3216 0.01
R3216 10K
R3212 22K
R3211 22K
R3217 22
R3218 22
CL3203
CL3204
A5
A6
A7
A8
A9
D1.8V
IC3203
MN673744
(VAD CON)
VSS3
AVDD1
AVSS1
VREFHY
VREFHMY
VREFMY
VREFMLY
VREFLY
AVSS2
VIDEO
AVDD2
AVDD3
AVSS3
VREFHC
VREFHMC
VREFMC
VREFMLC
VREFLC
AVSS4
CIN
AVDD4
AGCO
VREFMA
AVSS5
ACCO
AVDD5
CLPOS
AVSS6
TCPOUT
AVDD6
VDD3
MINTEST
SCANEN
SDRPOWUP
SDRCLK
SDRCLKIN
VDD
MODT15
MODT14
MODT13
MODT12
MODT11
MODT10
MODT9
MODT8
VSS
MODT7
MODT6
MODT5
MODT4
MODT3
MODT2
DT15
DT14
DT13
DT12
DT11
DT10
DT9
DT8
DT7
DT6
DT5
DT4
DT3
DT2
DT1
DT0
MODT1
MODT0
MOBA
MOAP
MOAD9
MOAD8
MOAD7
MOAD6
MOAD5
MOAD4
MOAD3
MOAD2
MOAD1
MOAD0
MOCS
MORAS
MOCAS
MOWE
MICOMSEL
MICOMMOD
MICONRWW
MICONRWR
MCSALE
MNRE
MNWENBW
MAD6
MAD5
MAD4
MAD3
MAD2
MAD1
MAD0
MDA15
MDA14
MDA13
MDA12
MDA11
MDA10
MDA9
MDA8
RX3205 33X4
RX3206 33X4
RX3207 33X4
RX3208 33X4
AD11
AD10
AD9
AD8
AD7
AD6
AD5
AD4
AD3
AD2
AD1
AD0
CS
RAS
CAS
WE
R3261 0
XAIOFCS
XMRE
XAIWE
MSA7
MSA6
MSA5
MSA4
MSA3
MSA2
MSA1
MSD31
MSD30
MSD29
MSD28
MSD27
MSD26
MSD25
MSD24
TST0
TST1
TST2
TESTIO0
TESTIO1
TESTIO2
TESTIO3
TESTIO4
TESTIO5
TESTIO6
TESTIO7
TESTIO8
TESTIO9
GCP
APCE
RST
CLK27XI
CLK27XO
CLK27I
R656IN0
R656IN1
R656IN2
R656IN3
R656IN4
R656IN5
R656IN6
R656IN7
FIELD
CSYNCO
CLK27O
R656OUT0
R656OUT1
R656OUT2
R656OUT3
R656OUT4
R656OUT5
R656OUT6
R656OUT7
MDA0
MDA1
MDA2
MDA3
MDA4
MDA5
MDA6
MDA7
MSD16
MSD17
MSD18
MSD19
MSD20
MSD21
MSD22
MSD23
A10
A11
A12
A13
A15
A16
FL3220 F1H0J1050018
FL3218 F1H0J1050018
FL3222 F1H0J1050018
FL3225 F1H0J1050018
FL3216 F1H0J1050018
R3254 22
IC3206
C0JBAR000332
(CLOCK OUT)
S
VCC
Z
I1
GND
I0
XSW656
R656DDCK
CLK27A2
R656DD0
R656DD1
R656DD2
R656DD3
R656DD4
R656DD5
R656DD6
R656DD7
RX3209 22X4
RX3210 22X4
RX3211 D1H8R0040009
RX3212 D1H8R0040009
R656ENC0
R656ENC1
R656ENC2
R656ENC3
R656ENC4
R656ENC5
R656ENC6
R656ENC7
D1.8V
MRWR
MRWW
AD
DV
MP
EN
DN
12
13
14
15
16
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22

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MP:MPEG4 Section(Page: N)

DMR-E100H GCS/GN/GH/GK
AV Input Section(Digital P.C.B.(2/9)) Schematic Diagram(AI)

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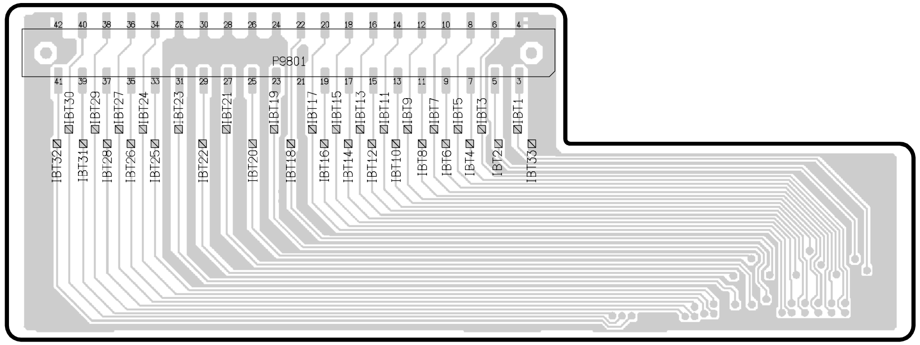
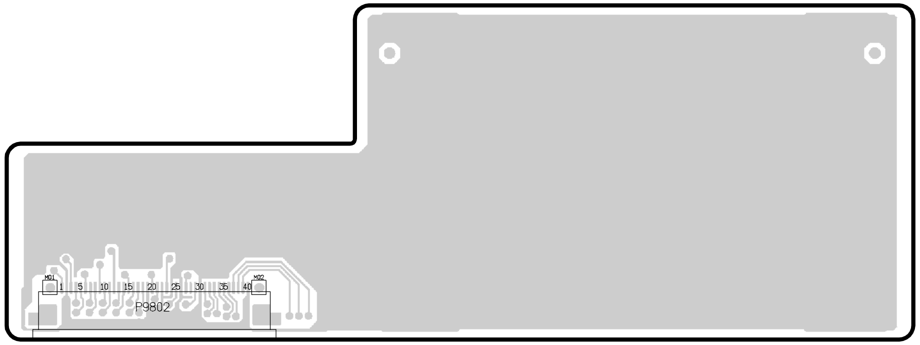
DMR-E100H GCS/GN/GH/GK
AV Input Section(Digital P.C.B.(2/9))
Schematic Diagram(AI)

DRIVE ATAPI P.C.B.

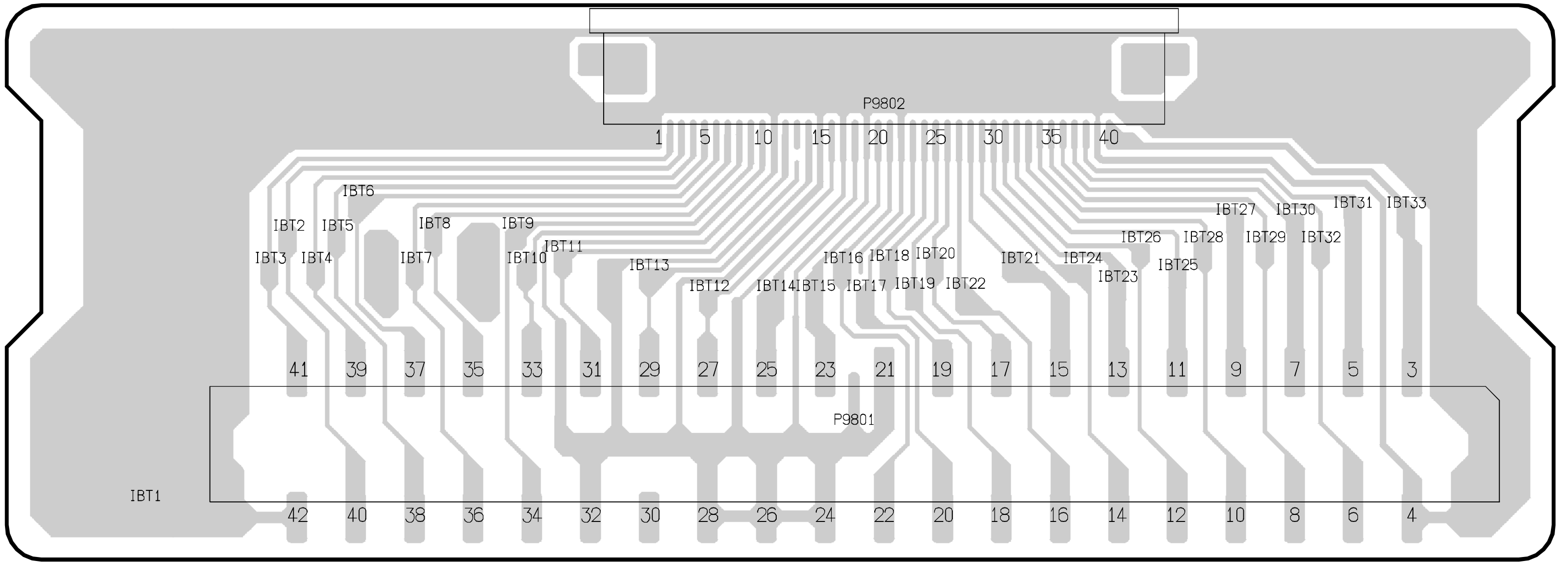

P9801
IBT1 IBT2 IBT3 IBT4 IBT5 IBT6 IBT7 IBT8 IBT9 IBT10 IBT11 IBT12 IBT13 IBT14 IBT15 IBT16 IBT17 IBT18 IBT19 IBT20 IBT21 IBT22 IBT23 IBT24 IBT25 IBT26 IBT27 IBT28 IBT29 IBT30 IBT31 IBT32 IBT33

(COMPONENT SIDE)

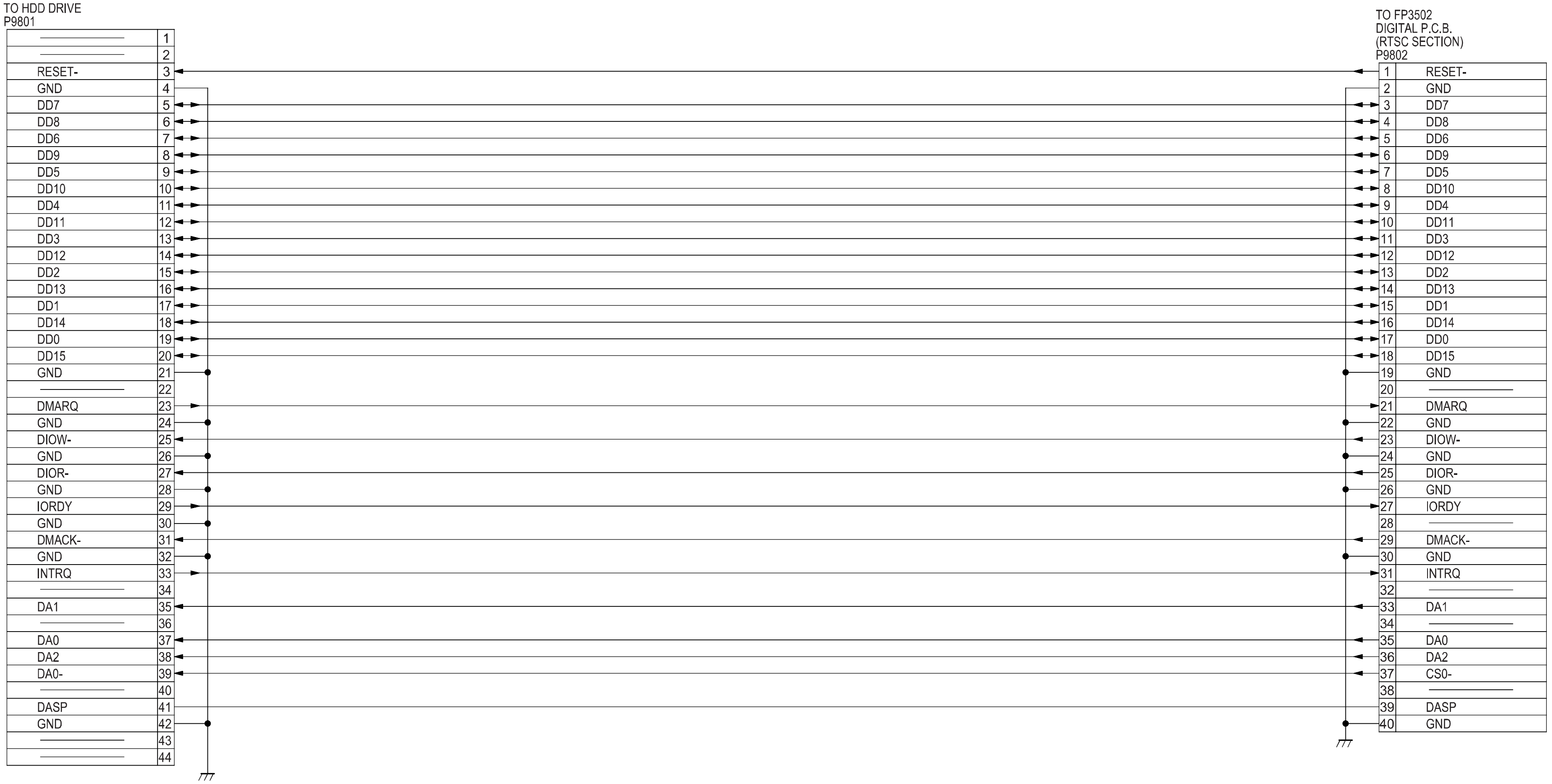

P9802
1 5 10 15 20 25 30 35 40

(FOIL SIDE)

ATAPI P.C.B.

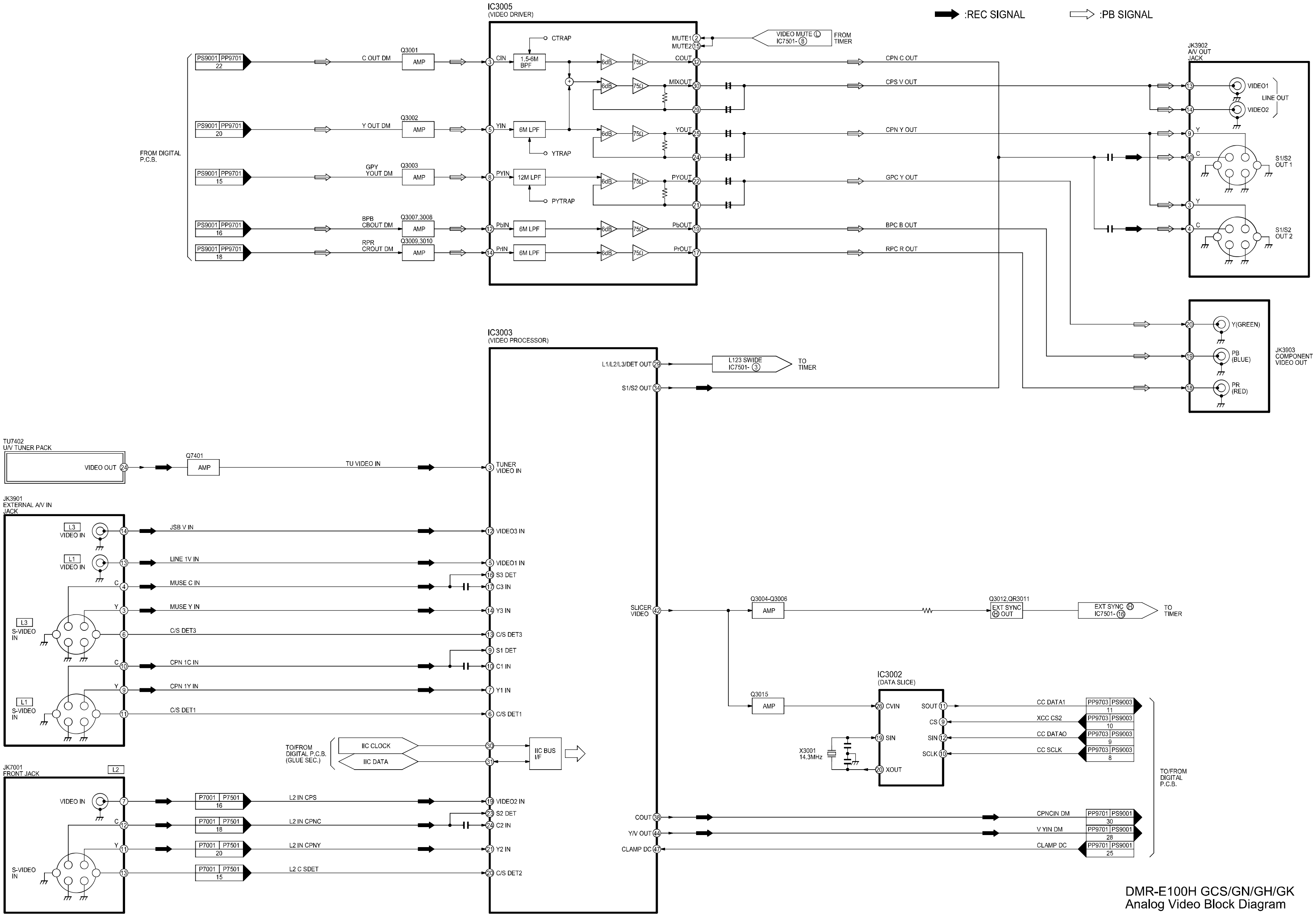

P9802
1 5 10 15 20 25 30 35 40
IBT1 IBT2 IBT3 IBT4 IBT5 IBT6 IBT7 IBT8 IBT9 IBT10 IBT11 IBT12 IBT13 IBT14 IBT15 IBT16 IBT17 IBT18 IBT19 IBT20 IBT21 IBT22 IBT23 IBT24 IBT25 IBT26 IBT27 IBT28 IBT29 IBT30 IBT31 IBT32 IBT33
41 39 37 35 33 31 29 27 25 23 21 19 17 15 13 11 9 7 5 3
P9801
42 40 38 36 34 32 30 28 26 24 22 20 18 16 14 12 10 8 6 4

DMR-E100H GCS/GN/GH/GK
DRIVE ATAPI P.C.B.
(REP3604A)
ATAPI P.C.B. (REP3542A)

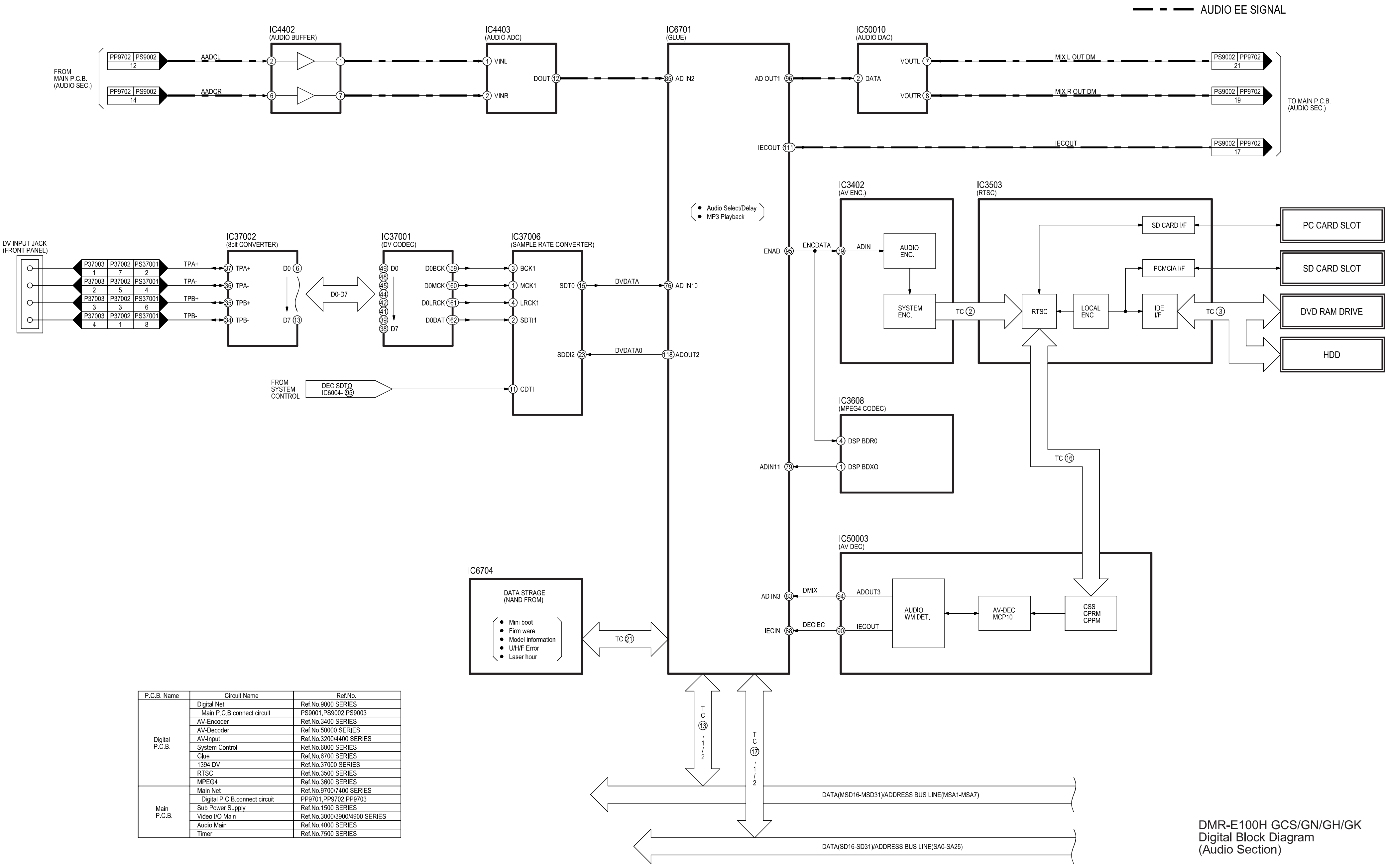

TO HDD DRIVE
P9801
1
2
3 RESET-
4 GND
5 DD7
6 DD8
7 DD6
8 DD9
9 DD5
10 DD10
11 DD4
12 DD11
13 DD3
14 DD12
15 DD2
16 DD13
17 DD1
18 DD14
19 DD0
20 DD15
21 GND
22
23 DMARQ
24 GND
25 DIOW-
26 GND
27 DIOR-
28 GND
29 IORDY
30 GND
31 DMACK-
32 GND
33 INTRQ
34
35 DA1
36
37 DA0
38 DA2
39 DA0-
40
41 DASP
42 GND
43
44
TO FP3502
DIGITAL P.C.B.
(RTSC SECTION)
P9802
1 RESET-
2 GND
3 DD7
4 DD8
5 DD6
6 DD9
7 DD5
8 DD10
9 DD4
10 DD11
11 DD3
12 DD12
13 DD2
14 DD13
15 DD1
16 DD14
17 DD0
18 DD15
19 GND
20
21 DMARQ
22 GND
23 DIOW-
24 GND
25 DIOR-
26 GND
27 IORDY
28
29 DMACK-
30 GND
31 INTRQ
32
33 DA1
34
35 DA0
36 DA2
37 CS0-
38
39 DASP
40 GND

NOTE:DO NOT USE THE PART NUMBER SHOWN ON THIS DRAWING FOR ORDERRING.THE CORRECT PART NUMBER IS SHOWN IN THE PARTS LIST,AND MAY BE SLIGHTLY DIFFERNT OR AMENDED SINCE THIS DRAWING WAS PREPARED.

DMR-E100H GCS/GN/GH/GK
ATAPI Schematic Diagram

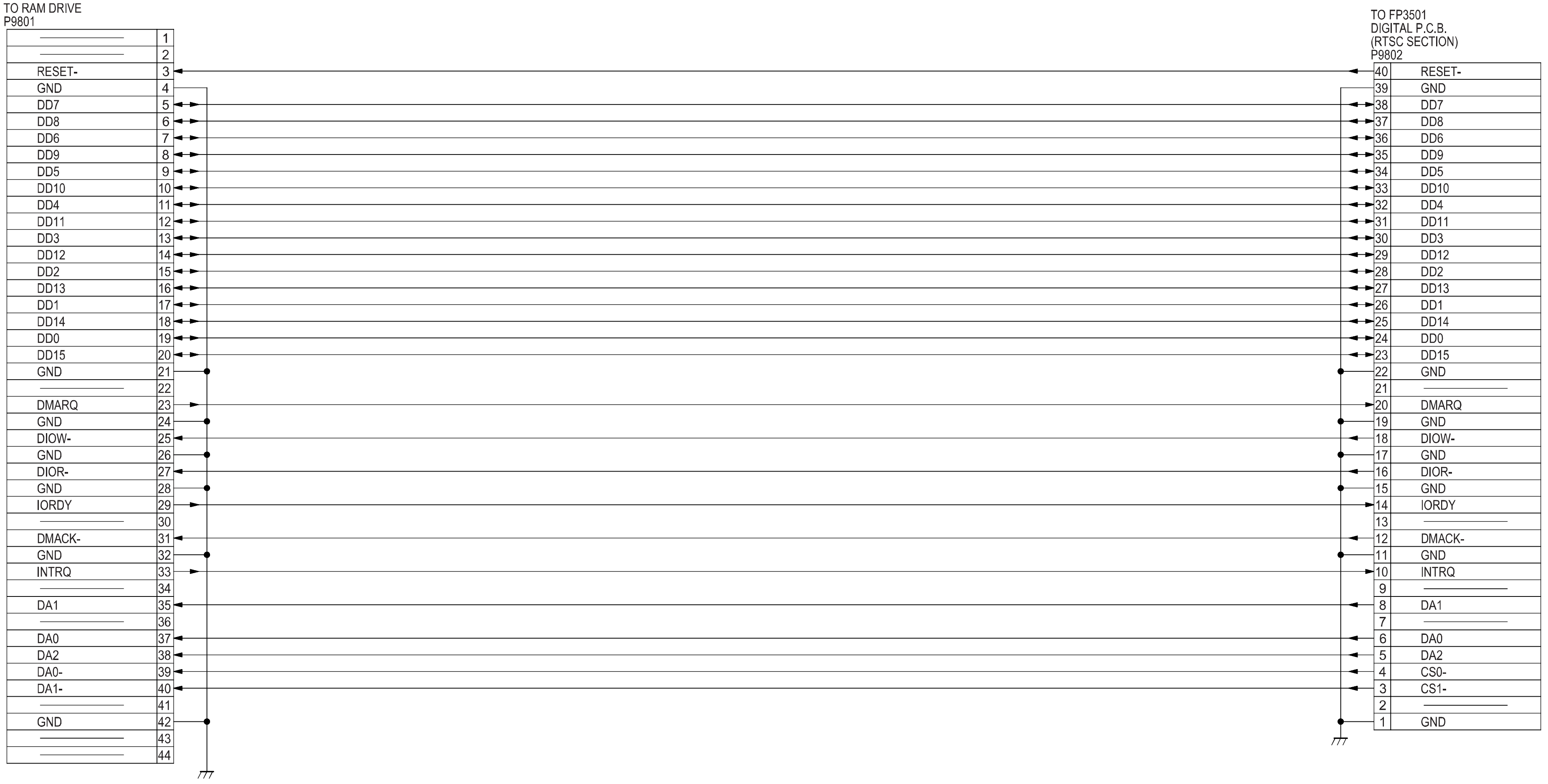

:REC SIGNAL
:PB SIGNAL
IC3005
(VIDEO DRIVER)
CIN
1.5-6M BPF
CTRAP
YIN
6M LPF
YTRAP
PYIN
12M LPF
PYTRAP
PbIN
6M LPF
PrIN
6M LPF
6dB
75Ω
MUTE1
MUTE2
COUT
MIXOUT
YOUT
PYOUT
PbOUT
PrOUT
VIDEO MUTE Ⓛ
IC7501- ⑧
FROM TIMER
FROM DIGITAL P.C.B.
PS9001 PP9701 22
PS9001 PP9701 20
PS9001 PP9701 15
PS9001 PP9701 16
PS9001 PP9701 18
C OUT DM
Y OUT DM
GPY YOUT DM
BPB CBOUT DM
RPR CROUT DM
Q3001
Q3002
Q3003
Q3007,3008
Q3009,3010
AMP
CPN C OUT
CPS V OUT
CPN Y OUT
GPC Y OUT
BPC B OUT
RPC R OUT
JK3902
A/V OUT JACK
VIDEO1
VIDEO2
LINE OUT
Y
C
S1/S2 OUT 1
S1/S2 OUT 2
JK3903
COMPONENT VIDEO OUT
Y(GREEN)
PB (BLUE)
PR (RED)
IC3003
(VIDEO PROCESSOR)
L1/L2/L3/DET OUT
L123 SWIDE
IC7501- ③
TO TIMER
S1/S2 OUT
TU7402
U/V TUNER PACK
VIDEO OUT
Q7401
AMP
TU VIDEO IN
TUNER VIDEO IN
JK3901
EXTERNAL A/V IN JACK
L3
VIDEO IN
L1
VIDEO IN
L3
S-VIDEO IN
L1
S-VIDEO IN
JSB V IN
LINE 1V IN
MUSE C IN
MUSE Y IN
C/S DET3
CPN 1C IN
CPN 1Y IN
C/S DET1
VIDEO3 IN
VIDEO1 IN
S3 DET
C3 IN
Y3 IN
C/S DET3
S1 DET
C1 IN
Y1 IN
C/S DET1
TO/FROM DIGITAL P.C.B. (GLUE SEC.)
IIC CLOCK
IIC DATA
IIC BUS I/F
JK7001
FRONT JACK
L2
VIDEO IN
S-VIDEO IN
P7001 P7501 16
P7001 P7501 18
P7001 P7501 20
P7001 P7501 15
L2 IN CPS
L2 IN CPNC
L2 IN CPNY
L2 C SDET
VIDEO2 IN
S2 DET
C2 IN
Y2 IN
C/S DET2
SLICER VIDEO
Q3004-Q3006
AMP
Q3012,QR3011
EXT SYNC Ⓗ OUT
EXT SYNC Ⓗ
IC7501- ⑯
TO TIMER
Q3015
AMP
IC3002
(DATA SLICE)
CVIN
SIN
XOUT
SOUT
CS
SIN
SCLK
X3001
14.3MHz
CC DATA1
XCC CS2
CC DATAO
CC SCLK
PP9703 PS9003 11
PP9703 PS9003 10
PP9703 PS9003 9
PP9703 PS9003 8
COUT
Y/V OUT
CLAMP DC
CPNCIN DM
V YIN DM
CLAMP DC
PP9701 PS9001 30
PP9701 PS9001 28
PP9701 PS9001 25
TO/FROM DIGITAL P.C.B.

DMR-E100H GCS/GN/GH/GK
Analog Video Block Diagram


AUDIO EE SIGNAL
FROM MAIN P.C.B. (AUDIO SEC.)
PP9702 PS9002 12
PP9702 PS9002 14
AADCL
AADCR
IC4402 (AUDIO BUFFER)
2
6
1
7
IC4403 (AUDIO ADC)
1 VINL
2 VINR
DOUT 12
IC6701 (GLUE)
85 AD IN2
AD OUT1 96
IECOUT 111
Audio Select/Delay
MP3 Playback
ENAD 95
76 AD IN10
118 ADOUT2
ADIN11 79
AD IN3 83
IECIN 88
IC50010 (AUDIO DAC)
2 DATA
VOUTL 7
VOUTR 8
MIX L OUT DM
MIX R OUT DM
IECOUT
PS9002 PP9702 21
PS9002 PP9702 19
PS9002 PP9702 17
TO MAIN P.C.B. (AUDIO SEC.)
DV INPUT JACK (FRONT PANEL)
P37003 P37002 PS37001 1 7 2
P37003 P37002 PS37001 2 5 4
P37003 P37002 PS37001 3 3 6
P37003 P37002 PS37001 4 1 8
TPA+
TPA-
TPB+
TPB-
IC37002 (8bit CONVERTER)
37 TPA+
36 TPA-
35 TPB+
34 TPB-
D0 6
D7 13
D0-D7
IC37001 (DV CODEC)
49 D0
48
45
44
42
41
39
38 D7
D0BCK 159
D0MCK 160
D0LRCK 161
D0DAT 162
IC37006 (SAMPLE RATE CONVERTER)
3 BCK1
1 MCK1
4 LRCK1
2 SDTI1
11 CDTI
SDT0 15
SDDI2 23
DVDATA
DVDATA0
FROM SYSTEM CONTROL
DEC SDTO IC6004- 95
ENCDATA
IC3402 (AV ENC.)
39
ADIN
AUDIO ENC.
SYSTEM ENC.
TC 2
IC3503 (RTSC)
SD CARD I/F
PCMCIA I/F
RTSC
LOCAL ENC
IDE I/F
TC 3
PC CARD SLOT
SD CARD SLOT
DVD RAM DRIVE
HDD
IC3608 (MPEG4 CODEC)
4 DSP BDR0
1 DSP BDXO
TC 16
IC50003 (AV DEC)
DMIX
94
ADOUT3
DECIEC
90
IECOUT
AUDIO WM DET.
AV-DEC MCP10
CSS CPRM CPPM
IC6704
DATA STRAGE (NAND FROM)
Mini boot
Firm ware
Model information
U/H/F Error
Laser hour
TC 21
TC 13 , 1/2
TC 17 , 1/2
DATA(MSD16-MSD31)/ADDRESS BUS LINE(MSA1-MSA7)
DATA(SD16-SD31)/ADDRESS BUS LINE(SA0-SA25)

P.C.B. Name	Circuit Name	Ref.No.
Digital P.C.B.	Digital Net	Ref.No.9000 SERIES
	Main P.C.B.connect circuit	PS9001,PS9002,PS9003
	AV-Encoder	Ref.No.3400 SERIES
	AV-Decoder	Ref.No.50000 SERIES
	AV-Input	Ref.No.3200/4400 SERIES
	System Control	Ref.No.6000 SERIES
	Glue	Ref.No.6700 SERIES
	1394 DV	Ref.No.37000 SERIES
	RTSC	Ref.No.3500 SERIES
	MPEG4	Ref.No.3600 SERIES
Main P.C.B.	Main Net	Ref.No.9700/7400 SERIES
	Digital P.C.B.connect circuit	PP9701,PP9702,PP9703
	Sub Power Supply	Ref.No.1500 SERIES
	Video I/O Main	Ref.No.3000/3900/4900 SERIES
	Audio Main	Ref.No.4000 SERIES
	Timer	Ref.No.7500 SERIES

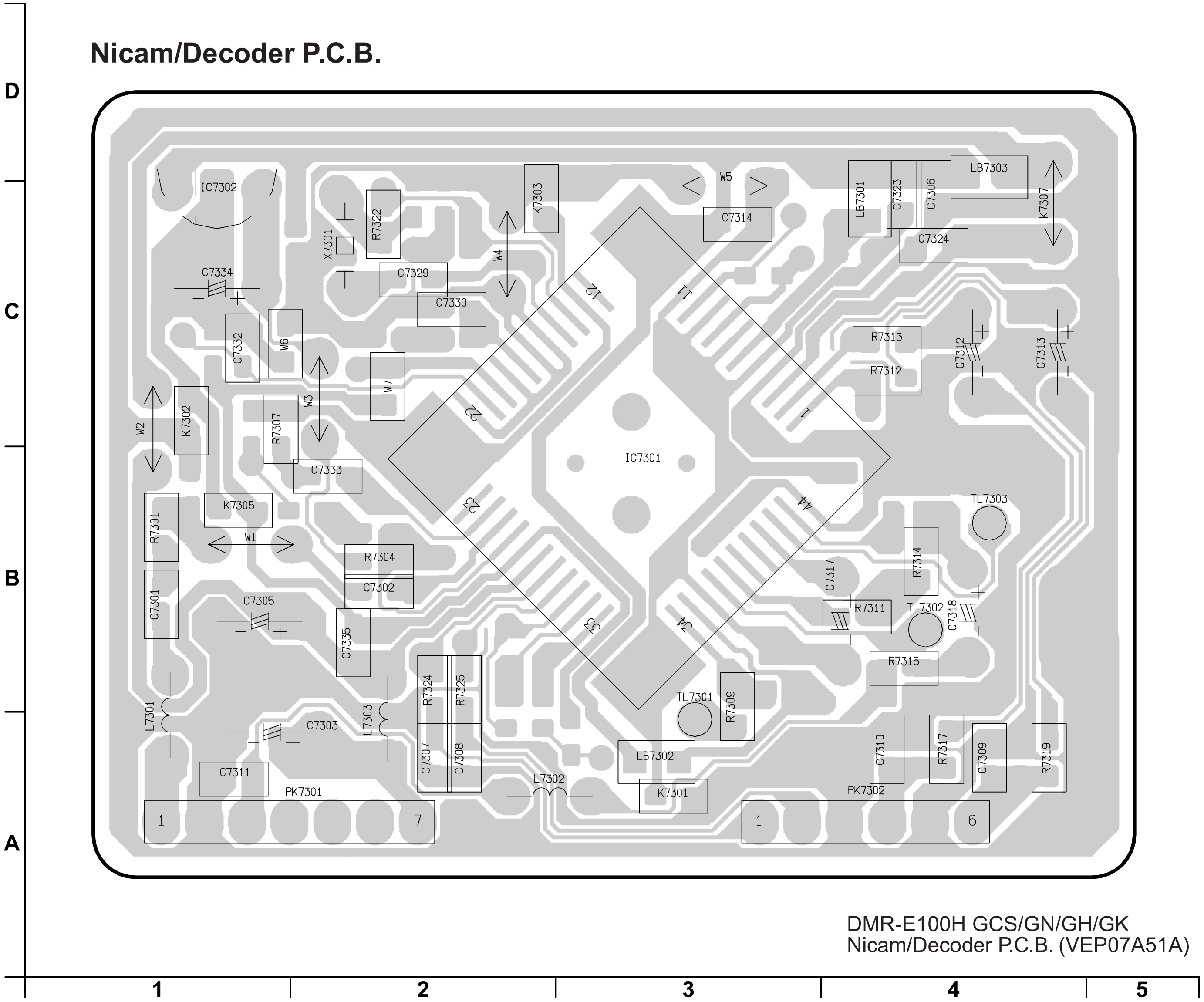
DMR-E100H GCS/GN/GH/GK
Digital Block Diagram
(Audio Section)


TO RAM DRIVE
P9801
1
2
RESET- 3
GND 4
DD7 5
DD8 6
DD6 7
DD9 8
DD5 9
DD10 10
DD4 11
DD11 12
DD3 13
DD12 14
DD2 15
DD13 16
DD1 17
DD14 18
DD0 19
DD15 20
GND 21
22
DMARQ 23
GND 24
DIOW- 25
GND 26
DIOR- 27
GND 28
IORDY 29
30
DMACK- 31
GND 32
INTRQ 33
34
DA1 35
36
DA0 37
DA2 38
DA0- 39
DA1- 40
41
GND 42
43
44
TO FP3501
DIGITAL P.C.B.
(RTSC SECTION)
P9802
40 RESET-
39 GND
38 DD7
37 DD8
36 DD6
35 DD9
34 DD5
33 DD10
32 DD4
31 DD11
30 DD3
29 DD12
28 DD2
27 DD13
26 DD1
25 DD14
24 DD0
23 DD15
22 GND
21
20 DMARQ
19 GND
18 DIOW-
17 GND
16 DIOR-
15 GND
14 IORDY
13
12 DMACK-
11 GND
10 INTRQ
9
8 DA1
7
6 DA0
5 DA2
4 CS0-
3 CS1-
2
1 GND
D
C
B
A
1
2
3
4
5
6

NOTE:DO NOT USE THE PART NUMBER SHOWN ON THIS DRAWING FOR ORDERRING.THE CORRECT PART NUMBER IS SHOWN IN THE PARTS LIST,AND MAY BE SLIGHTLY DIFFERNT OR AMENDED SINCE THIS DRAWING WAS PREPARED.

DMR-E100H GCS/GN/GH/GK
DRIVE ATAPI Schematic Diagram

Nicam/Decoder P.C.B.


D
C
B
A
1
2
3
4
5
IC7302
X7301
R7322
K7303
W5
C7314
LB7301
C7323
C7306
LB7303
K7307
C7324
W4
C7329
C7330
C7334
12
11
C7332
W6
W7
W3
R7313
R7312
C7312
C7313
W2
K7302
R7307
22
1
IC7301
C7333
K7305
R7301
W1
23
44
TL7303
R7304
C7302
C7301
C7305
C7335
33
34
R7314
C7317
R7311
TL7302
C7318
R7315
L7301
C7303
L7303
R7324
R7325
TL7301
R7309
C7307
C7308
LB7302
L7302
K7301
C7310
R7317
C7309
R7319
C7311
PK7301
PK7302
1
7
1
6

DMR-E100H GCS/GN/GH/GK
Nicam/Decoder P.C.B. (VEP07A51A)

IC Pin Terminal Chart (TC 1 - TC 6)

TC	IC3203 / VAD CON		SIGNAL NAME	IC3402 / AV ENC	
	Port Name	Pin No		Pin No	Port Name
1	R656OUT0	141	R656ENC0	17	VIN0
	R656OUT1	140	R656ENC1	18	VIN1
	R656OUT2	139	R656ENC2	20	VIN2
	R656OUT3	138	R656ENC3	21	VIN3
	R656OUT4	135	R656ENC4	23	VIN4
	R656OUT5	134	R656ENC5	24	VIN5
	R656OUT6	133	R656ENC6	25	VIN6
	R656OUT7	132	R656ENC7	26	VIN7

TC	IC3402 / AV ENC		SIGNAL NAME	IC3503 / RTSC	
	Port Name	Pin No		Pin No	Port Name
2	CDO0	63	ED0	28	B2DAT0
	CDO1	64	ED1	29	B2DAT1
	CDO2	65	ED2	31	B2DAT2
	CDO3	67	ED3	32	B2DAT3
	CDO4	68	ED4	34	B2DAT4
	CDO5	69	ED5	35	B2DAT5
	CDO6	72	ED6	36	B2DAT6
	CDO7	73	ED7	38	B2DAT7

TC	IC3503 / RTSC		SIGNAL NAME	FP3501 (TO DVD RAM), FP3502 (TO HDD)	
	Port Name	Pin No		Pin No	Port Name
3	IHDD0	211	RAMD0	24	DD0
	IHDD1	215	RAMD1	26	DD1
	IHDD2	219	RAMD2	28	DD2
	IHDD3	221	RAMD3	30	DD3
	IHDD4	225	RAMD4	32	DD4
	IHDD5	230	RAMD5	34	DD5
	IHDD6	232	RAMD6	36	DD6
	IHDD7	235	RAMD7	38	DD7
	IHDD8	234	RAMD8	37	DD8
	IHDD9	231	RAMD9	35	DD9
	IHDD10	226	RAMD10	33	DD10
	IHDD11	224	RAMD11	31	DD11
	IHDD12	220	RAMD12	29	DD12
	IHDD13	216	RAMD13	27	DD13
	IHDD14	214	RAMD14	25	DD14
	IHDD15	210	RAMD15	23	DD15

TC	IC3203/VAD CON		SIGNAL NAME	IC3201/SDRAM	
	Port Name	Pin No		Pin No	Port Name
4	M0DT0	63	DT0	2	DO0
	M0DT1	62	DT1	3	DO1
	M0DT2	60	DT2	5	DO2
	M0DT3	59	DT3	6	DO3
	M0DT4	57	DT4	8	DO4
	M0DT5	56	DT5	9	DO5
	M0DT6	54	DT6	11	DO6
	M0DT7	53	DT7	12	DO7
	M0DT8	50	DT8	39	DO8
	M0DT9	49	DT9	40	DO9
	M0DT10	47	DT10	42	DO10
	M0DT11	46	DT11	43	DO11
	M0DT12	44	DT12	45	DO12
	M0DT13	43	DT13	46	DO13
	M0DT14	41	DT14	48	DO14
	M0DT15	40	DT15	49	DO15
	M0AD0	83	AD0	21	A0
	M0AD1	82	AD1	22	A1
	M0AD2	80	AD2	23	A2
	M0AD3	79	AD3	24	A3
	M0AD4	76	AD4	27	A4
	M0AD5	75	AD5	28	A5
	M0AD6	73	AD6	29	A6
	M0AD7	72	AD7	30	A7
	M0AD8	70	AD8	31	A8
	M0AD9	69	AD9	32	A9
	M0AP	67	AD10	20	A10
	M0BA	66	AD11	19	A11

TC	IC3402/AV ENC		SIGNAL NAME	IC3401/SDRAM(32bit/64M)	
	Port Name	Pin No		Pin No	Port Name
5	MDQ0	124	MDQA0	2	DQ0
	MDQ1	125	MDQA1	4	DQ1
	MDQ2	127	MDQA2	5	DQ2
	MDQ3	128	MDQA3	7	DQ3
	MDQ4	130	MDQA4	8	DQ4
	MDQ5	131	MDQA5	10	DQ5
	MDQ6	133	MDQA6	11	DQ6
	MDQ7	134	MDQA7	13	DQ7
	MDQ8	137	MDQA8	74	DQ8
	MDQ9	138	MDQA9	76	DQ9
	MDQ10	140	MDQA10	77	DQ10
	MDQ11	141	MDQA11	79	DQ11
	MDQ12	143	MDQA12	80	DQ12
	MDQ13	144	MDQA13	82	DQ13
	MDQ14	146	MDQA14	83	DQ14
	MDQ15	147	MDQA15	85	DQ15
	MDQ16	150	MDQA16	31	DQ16
	MDQ17	151	MDQA17	33	DQ17
	MDQ18	153	MDQA18	34	DQ18
	MDQ19	154	MDQA19	36	DQ19
	MDQ20	158	MDQA20	37	DQ20
	MDQ21	159	MDQA21	39	DQ21
	MDQ22	161	MDQA22	40	DQ22
	MDQ23	162	MDQA23	42	DQ23
	MDQ24	165	MDQA24	45	DQ24
	MDQ25	166	MDQA25	47	DQ25
	MDQ26	168	MDQA26	48	DQ26
	MDQ27	169	MDQA27	50	DQ27
	MDQ28	186	MDQA28	51	DQ28
	MDQ29	187	MDQA29	53	DQ29
	MDQ30	190	MDQA30	54	DQ30
	MDQ31	191	MDQA31	56	DQ31
	MA0	193	MAA0	25	A0
	MA1	194	MAA1	26	A1
	MA2	196	MAA2	27	A2
	MA3	197	MAA3	60	A3
	MA4	200	MAA4	61	A4
	MA5	201	MAA5	62	A5
	MA6	203	MAA6	63	A6
	MA7	204	MAA7	64	A7
	MA8	206	MAA8	65	A8
	MA9	207	MAA9	66	A9
	MA10	2	MAA10	24	A10

TC	IC3503 / RTSC		SIGNAL NAME	IC3501,IC3502/SDRAM	
	Port Name	Pin No		Pin No	Port Name
6	MDQ0	248	MADQB0	2	DQ0
	MDQ1	250	MADQB1	4	DQ1
	MDQ2	252	MADQB2	5	DQ2
	MDQ3	254	MADQB3	7	DQ3
	MDQ4	258	MADQB4	8	DQ4
	MDQ5	261	MADQB5	10	DQ5
	MDQ6	263	MADQB6	11	DQ6
	MDQ7	266	MADQB7	13	DQ7
	MDQ8	267	MADQB8	42	DQ8
	MDQ9	264	MADQB9	44	DQ9
	MDQ10	262	MADQB10	45	DQ10
	MDQ11	259	MADQB11	47	DQ11
	MDQ12	255	MADQB12	48	DQ12
	MDQ13	253	MADQB13	50	DQ13
	MDQ14	251	MADQB14	51	DQ14
	MDQ15	249	MADQB15	53	DQ15

IC Pin Terminal Chart (TC 7, TC 8, TC 9, TC 15, TC 16, TC 21, TC 22)

TC	IC3203/VAD CON		SIGNAL NAME	IC50003/AV DEC	
	Port Name	Pin No		Pin No	Port Name
7	R656OUT0	141	R656MP0	138	VDIN0
	R656OUT1	140	R656MP1	137	VDIN1
	R656OUT2	139	R656MP2	136	VDIN2
	R656OUT3	138	R656MP3	134	VDIN3
	R656OUT4	135	R656MP4	133	VDIN4
	R656OUT5	134	R656MP5	132	VDIN5
	R656OUT6	133	R656MP6	130	VDIN6
	R656OUT7	132	R656MP7	129	VDIN7

TC	IC50003/AV DEC		SIGNAL NAME	IC50002/SDRAM	
	Port Name	Pin No		Pin No	Port Name
8	MDQ0	17	DQ0	2	DQ0
	MDQ1	14	DQ1	4	DQ1
	MDQ2	11	DQ2	5	DQ2
	MDQ3	8	DQ3	7	DQ3
	MDQ4	6	DQ4	8	DQ4
	MDQ5	3	DQ5	10	DQ5
	MDQ6	207	DQ6	11	DQ6
	MDQ7	205	DQ7	13	DQ7
	MDQ8	206	DQ8	42	DQ8
	MDQ9	2	DQ9	44	DQ9
	MDQ10	4	DQ10	45	DQ10
	MDQ11	7	DQ11	47	DQ11
	MDQ12	9	DQ12	48	DQ12
	MDQ13	13	DQ13	50	DQ13
	MDQ14	16	DQ14	51	DQ14
	MDQ15	18	DQ15	53	DQ15
	MA0	183	A0	23	A0
	MA1	181	A1	24	A1
	MA2	178	A2	25	A2
	MA3	176	A3	26	A3
	MA4	177	A4	29	A4
	MA5	179	A5	30	A5
	MA6	182	A6	31	A6
	MA7	188	A7	32	A7
	MA8	191	A8	33	A8
	MA9	196	A9	34	A9
	MA10	189	A10	22	A10
	MA11	192	A11	35	A11

TC	IC50003/AV DEC		SIGNAL NAME	IC50004/SDRAM	
	Port Name	Pin No		Pin No	Port Name
9	MDQ16	171	DQ16	2	DQ0
	MDQ17	168	DQ17	4	DQ1
	MDQ18	166	DQ18	5	DQ2
	MDQ19	163	DQ19	7	DQ3
	MDQ20	160	DQ20	8	DQ4
	MDQ21	158	DQ21	10	DQ5
	MDQ22	154	DQ22	11	DQ6
	MDQ23	151	DQ23	13	DQ7
	MDQ24	150	DQ24	42	DQ8
	MDQ25	153	DQ25	44	DQ9
	MDQ26	155	DQ26	45	DQ10
	MDQ27	159	DQ27	47	DQ11
	MDQ28	162	DQ28	48	DQ12
	MDQ29	164	DQ29	50	DQ13
	MDQ30	167	DQ30	51	DQ14
	MDQ31	169	DQ31	53	DQ15
	MA0	183	A0	23	A0
	MA1	181	A1	24	A1
	MA2	178	A2	25	A2
	MA3	176	A3	26	A3
	MA4	177	A4	29	A4
	MA5	179	A5	30	A5
	MA6	182	A6	31	A6
	MA7	188	A7	32	A7
	MA8	191	A8	33	A8
	MA9	196	A9	34	A9
	MA10	189	A10	22	A10
	MA11	192	A11	35	A11

TC	IC6004 / MAIN CPU		SIGNAL NAME	IC6002,IC6003 / W-MEMORY	
	Port Name	Pin No		Pin No	Port Name
15	MD0	35	MD0	2	DQ0
	MD1	36	MD1	4	DQ1
	MD2	37	MD2	5	DQ2
	MD3	38	MD3	7	DQ3
	MD4	39	MD4	8	DQ4
	MD5	40	MD5	10	DQ5
	MD6	41	MD6	11	DQ6
	MD7	42	MD7	13	DQ7
	MD8	46	MD8	42	DQ8
	MD9	47	MD9	44	DQ9
	MD10	48	MD10	45	DQ10
	MD11	49	MD11	47	DQ11
	MD12	50	MD12	48	DQ12
	MD13	51	MD13	50	DQ13
	MD14	52	MD14	51	DQ14
	MD15	53	MD15	53	DQ15
	MA0	5	MA0	23	A0
	MA1	6	MA1	24	A1
	MA2	7	MA2	25	A2
	MA3	8	MA3	26	A3
	MA4	9	MA4	29	A4
	MA5	10	MA5	30	A5
	MA6	11	MA6	31	A6
	MA7	12	MA7	32	A7
	MA8	13	MA8	33	A8
	MA9	14	MA9	34	A9
	MA10	15	MA10	22	A10
	MA11	16	MA11	35	A11
	MA12	17	MA12	36	NC
	MA13	18	MA13	21	A12
	MA14	19	MA14	20	A13

TC	IC3503 / RTSC		SIGNAL NAME	IC50003 / AV DEC	
	Port Name	Pin No		Pin No	Port Name
16	B3DATA0	51	STD0	88	STD0
	B3DATA1	49	STD1	87	STD1
	B3DATA2	47	STD2	86	STD2
	B3DATA3	46	STD3	85	STD3
	B3DATA4	45	STD4	84	STD4
	B3DATA5	44	STD5	83	STD5
	B3DATA6	43	STD6	82	STD6
	B3DATA7	42	STD7	81	STD7

TC	IC6701 / GLUE		SIGNAL NAME	IC6704 / DATA STRAGE	
	Port Name	Pin No		Pin No	Port Name
21	ECCD0	67	DE0	29	D0
	ECCD1	70	DE1	30	D1
	ECCD2	69	DE2	31	D2
	ECCD3	68	DE3	32	D3
	ECCD4	71	DE4	41	D4
	ECCD5	74	DE5	42	D5
	ECCD6	73	DE6	43	D6
	ECCD7	72	DE7	44	D7

TC	IC37002 / 8bit CONVERTER		SIGNAL NAME	IC37001 / DV CODEC	
	Port Name	Pin No		Pin No	Port Name
22	D0	6	D0	49	D0
	D1	7	D1	48	D1
	D2	8	D2	45	D2
	D3	9	D3	44	D3
	D4	10	D4	42	D4
	D5	11	D5	41	D5
	D6	12	D6	39	D6
	D7	13	D7	38	D7

IC Pin Terminal Chart (TC 28 - TC 32,TC34,TC37)

TC	**IC5003 / AV DEC**		**SIGNAL NAME**	**IC37001 / DV CODEC**	
	Port Name	Pin No		Pin No	Port Name
28	VDOUT0	140	R656DEC0	157	R656IN0
	VDOUT1	141	R656DEC1	156	R656IN1
	VDOUT2	142	R656DEC2	155	R656IN2
	VDOUT3	143	R656DEC3	154	R656IN3
	VDOUT4	145	R656DEC4	152	R656IN4
	VDOUT5	146	R656DEC5	151	R656IN5
	VDOUT6	147	R656DEC6	150	R656IN6
	VDOUT7	149	R656DEC7	149	R656IN7

TC	**IC5003 / AV DEC**		**SIGNAL NAME**	**IC50009 / BUFFER**	
	Port Name	Pin No		Pin No	Port Name
29	VDOUT0	140	R656DEC0	2	I0
	VDOUT1	141	R656DEC1	3	I1
	VDOUT2	142	R656DEC2	4	I2
	VDOUT3	143	R656DEC3	5	I3
	VDOUT4	145	R656DEC4	6	I4
	VDOUT5	146	R656DEC5	7	I5
	VDOUT6	147	R656DEC6	8	I6
	VDOUT7	149	R656DEC7	9	I7

TC	**IC37001 / DV CODEC**		**SIGNAL NAME**	**IC3203 / VAD CON**	
	Port Name	Pin No		Pin No	Port Name
30	REC656OUT0	145	R656DD0	155	R656IN0
	REC656OUT1	144	R656DD1	154	R656IN1
	REC656OUT2	143	R656DD2	153	R656IN2
	REC656OUT3	142	R656DD3	152	R656IN3
	REC656OUT4	140	R656DD4	151	R656IN4
	REC656OUT5	139	R656DD5	150	R656IN5
	REC656OUT6	138	R656DD6	149	R656IN6
	REC656OUT7	137	R656DD7	148	R656IN7

TC	**IC50009 / BUFFER**		**SIGNAL NAME**	**IC3203 / VAD CON**	
	Port Name	Pin No		Pin No	Port Name
31	O0	18	R656DD0	155	R656IN0
	O1	17	R656DD1	154	R656IN1
	O2	16	R656DD2	153	R656IN2
	O3	15	R656DD3	152	R656IN3
	O4	14	R656DD4	151	R656IN4
	O5	13	R656DD5	150	R656IN5
	O6	12	R656DD6	149	R656IN6
	O7	11	R656DD7	148	R656IN7

TC	**IC3203 / VAD CON**		**SIGNAL NAME**	**IC3608 / MPEG4 CODEC**	
	Port Name	Pin No		Pin No	Port Name
32	R656OUT0	141	R656ENC0	109	C DATA4
	R656OUT1	140	R656ENC1	110	C DATA5
	R656OUT2	139	R656ENC2	111	C DATA6
	R656OUT3	138	R656ENC3	112	C DATA7
	R656OUT4	135	R656ENC4	113	C DATA8
	R656OUT5	134	R656ENC5	114	C DATA9
	R656OUT6	133	R656ENC6	115	C DATA10
	R656OUT7	132	R656ENC7	116	C DATA11

TC	**IC3608 / MPEG4 CODE**		**SIGNAL NAME**	**IC3607 / SDRAM(32bit/16M)**	
	Port Name	Pin No		Pin No	Port Name
34	SDR DQ0	202	MPDT0	2	DQ0
	SDR DQ1	201	MPDT1	4	DQ1
	SDR DQ2	200	MPDT2	5	DQ2
	SDR DQ3	198	MPDT3	7	DQ3
	SDR DQ4	197	MPDT4	8	DQ4
	SDR DQ5	196	MPDT5	10	DQ5
	SDR DQ6	195	MPDT6	11	DQ6
	SDR DQ7	194	MPDT7	13	DQ7
	SDR DQ8	193	MPDT8	74	DQ8
	SDR DQ9	192	MPDT9	76	DQ9
	SDR DQ10	191	MPDT10	77	DQ10
	SDR DQ11	188	MPDT11	79	DQ11
	SDR DQ12	187	MPDT12	80	DQ12
	SDR DQ13	186	MPDT13	82	DQ13
	SDR DQ14	185	MPDT14	83	DQ14
	SDR DQ15	184	MPDT15	85	DQ15
	SDR DQ16	183	MPDT16	31	DQ16
	SDR DQ17	182	MPDT17	33	DQ17
	SDR DQ18	181	MPDT18	34	DQ18
	SDR DQ19	180	MPDT19	36	DQ19
	SDR DQ20	179	MPDT20	37	DQ20
	SDR DQ21	178	MPDT21	39	DQ21
	SDR DQ22	177	MPDT22	40	DQ22
	SDR DQ23	176	MPDT23	42	DQ23
	SDR DQ24	175	MPDT24	45	DQ24
	SDR DQ25	172	MPDT25	47	DQ25
	SDR DQ26	171	MPDT26	48	DQ26
	SDR DQ27	170	MPDT27	50	DQ27
	SDR DQ28	169	MPDT28	51	DQ28
	SDR DQ29	168	MPDT29	53	DQ29
	SDR DQ30	167	MPDT30	54	DQ30
	SDR DQ31	166	MPDT31	56	DQ31
	SDR A0	164	MPAD0	25	A0
	SDR A1	163	MPAD1	26	A1
	SDR A2	162	MPAD2	27	A2
	SDR A3	161	MPAD3	60	A3
	SDR A4	160	MPAD4	61	A4
	SDR A5	158	MPAD5	62	A5
	SDR A6	157	MPAD6	63	A6
	SDR A7	156	MPAD7	64	A7
	SDR A8	155	MPAD8	65	A8
	SDR A9	154	MPAD9	66	A9
	SDR A10	153	MPAD10	24	A10
	SDR A13	150	MPBA1	22	BA0
	SDR A14	149	MPBA0	23	BA1

TC	**IC3603 / BUFFER**		**SIGNAL NAME**	**IC3203 / VAD CON**	
	Port Name	Pin No		Pin No	Port Name
37	O7	11	R656DD7	148	R656IN7
	O6	12	R656DD6	149	R656IN6
	O5	13	R656DD5	150	R656IN5
	O4	14	R656DD4	151	R656IN4
	O3	15	R656DD3	152	R656IN3
	O2	16	R656DD2	153	R656IN2
	O1	17	R656DD1	154	R656IN1
	O0	18	R656DD0	155	R656IN0

SD16 - SD31 DATA BUS LINE (TC20-2, TC17-2, TC19-2,TC35-2)

TC	20-2		17-2		19-2		35-2	
SIGNAL NAME	**IC6004 / MAIN CPU**		**IC6701 / GLUE**		**IC6006 / LOADER**		**IC3608 / MPEG4**	
	Pin No	Port Name	Pin No	Port Name	Pin No	Port Name	Pin No	Port Name
SD16	135	SD16	201	LDTI 0	15	D0	261	ARMD0
SD17	136	SD17	200	LDTI 1	17	D1	260	ARMD1
SD18	137	SD18	199	LDTI 2	19	D2	259	ARMD2
SD19	138	SD19	202	LDTI 3	21	D3	258	ARMD
SD20	139	SD20	197	LDTI 4	24	D4	257	ARMD4
SD21	140	SD21	196	LDTI 5	26	D5	256	ARMD5
SD22	141	SD22	198	LDTI 6	28	D6	253	ARMD6
SD23	142	SD23	195	LDTI 7	30	D7	252	ARMD7
SD24	144	SD24	194	LDTI 8	16	D8	251	ARMD8
SD25	145	SD25	192	LDTI 9	18	D9	250	ARMD9
SD26	146	SD26	191	LDTI 10	20	D10	249	ARMD10
SD27	147	SD27	189	LDTI 11	22	D11	248	ARMD11
SD28	148	SD28	190	LDTI 12	25	D12	247	ARMD12
SD29	149	SD29	188	LDTI 13	27	D13	246	ARMD13
SD30	150	SD30	187	LDTI 14	29	D14	245	ARMD14
SD31	151	SD31	185	LDTI 15	31	D15	244	ARMD15

SA0 - SA25 ADDRESS BUS LINE (TC20-1, TC12-3, TC17-1, TC18, TC19-1, TC25, TC27,TC35-1)

TC	20-1		12-3		17-1		18		19-1		25		27		35-1	
SIGNAL NAME	**IC6004/MAIN CPU**		**IC3503 / RTSC**		**IC6701/GLUE**		**IC6007 / BUFFER**		**IC6006 / LOADER**		**IC50003 / AVDEC**		**IC37001 / DV CODEC**		**IC3608 / MPEG4**	
	Pin No	Port Name	Pin No	Port Name	Pin No	Port Name	Pin No	Port Name	Pin No	Port Name	Pin No	Port Name	Pin No	Port Name	Pin No	Port Name
SA0	186	SA0	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SA1	187	SA1	-	-	-	-	26	4A4	11	A0	-	-	-	-	-	-
SA2	188	SA2	-	-	-	-	27	4A3	10	A1	-	-	-	-	-	-
SA3	189	SA3	-	-	-	-	29	4A2	9	A2	-	-	-	-	-	-
SA4	190	SA4	-	-	-	-	30	4A1	8	A3	-	-	-	-	-	-
SA5	191	SA5	-	-	-	-	32	3A4	7	A4	-	-	-	-	-	-
SA6	192	SA6	-	-	-	-	33	3A3	6	A5	-	-	-	-	-	-
SA7	193	SA7	-	-	-	-	35	3A2	5	A6	-	-	-	-	-	-
SA8	194	SA8	70	HADR8	-	-	-	-	4	A7	41	HA8	109	AD7	279	ARMA7
SA9	195	SA9	71	HADR9	-	-	-	-	42	A8	42	HA9	107	AD8	278	ARMA8
SA10	196	SA10	72	HADR10	-	-	-	-	41	A9	43	HA10	106	AD9	277	ARMA9
SA11	197	SA11	73	HADR11	-	-	-	-	40	A10	45	HA11	105	AD10	274	ARMA10
SA12	198	SA12	76	HADR12	-	-	-	-	39	A11	46	HA12	104	AD11	273	ARMA11
SA13	199	SA13	77	HADR13	-	-	-	-	38	A12	47	HA13	103	AD12	272	ARMA12
SA14	200	SA14	78	HADR14	-	-	-	-	37	A13	49	HA14	-	-	271	ARMA13
SA15	201	SA15	79	HADR15	-	-	-	-	36	A14	50	HA15	-	-	270	ARMA14
SA16	205	SA16	82	HADR16	-	-	-	-	35	A15	51	HA16	-	-	269	ARMA15
SA17	206	SA17	83	HADR17	-	-	-	-	34	A16	54	HA17	-	-	268	ARMA16
SA18	207	SA18	84	HADR18	-	-	-	-	3	A17	-	-	-	-	267	ARMA17
SA19	208	SA19	85	HADR19	-	-	-	-	-	-	-	-	-	-	266	ARMA18
SA20	209	SA20	86	HADR20	-	-	-	-	-	-	-	-	-	-	265	ARMA19
SA21	210	SA21	87	HADR21	-	-	-	-	-	-	-	-	-	-	264	ARMA20
SA22	211	SA22	-	-	174	ADR22	-	-	-	-	-	-	-	-	263	ARMA21
SA23	212	SA23	-	-	171	ADRH0	-	-	-	-	-	-	-	-	262	ARMA22
SA24	213	SA24	-	-	172	ADRH1	-	-	-	-	-	-	-	-	-	-
SA25	214	SA25	-	-	173	ADRH2	-	-	-	-	-	-	-	-	-	-

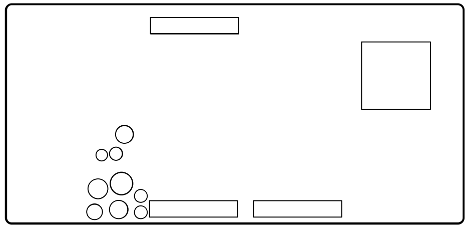
MSD16 - MSD31 DATA BUS LINE (TC10-1, TC11-1, TC12-1, TC13-1, TC14-1, TC26-1)

TC	10-1		11-1		12-1		13-1		14-1		26-1	
SIGNAL NAME	**IC3203/VAD CON**		**IC3402/ AV ENC**		**IC3503/RTSC**		**IC6701/GLUE**		**IC50003/AVDEC**		**IC37001/DV CODEC**	
	Pin No	Port Name	Pin No	Port Name	Pin No	Port Name	Pin No	Port Name	Pin No	Port Name	Pin No	Port Name
MSD16	129	MDA0	81	HD0	108	HDAT0	12	LDEV0	55	HD0	101	ADDT0
MSD17	128	MDA1	82	HD1	107	HDAT1	13	LDEV1	56	HD1	100	ADDT1
MSD18	127	MDA2	85	HD2	106	HDAT2	11	LDEV2	57	HD2	99	ADDT2
MSD19	126	MDA3	86	HD3	105	HDAT3	10	LDEV3	59	HD3	98	ADDT3
MSD20	124	MDA4	88	HD4	103	HDAT4	7	LDEV4	60	HD4	96	ADDT4
MSD21	123	MDA5	89	HD5	102	HDAT5	8	LDEV5	61	HD5	95	ADDT5
MSD22	122	MDA6	90	HD6	100	HDAT6	9	LDEV6	63	HD6	94	ADDT6
MSD23	121	MDA7	92	HD7	99	HDAT7	14	LDEV7	64	HD7	93	ADDT7
MSD24	118	MDA8	93	HD8	98	HDAT8	2	LDEV8	65	HD8	91	ADDT8
MSD25	117	MDA9	94	HD9	97	HDAT9	4	LDEV9	67	HD9	90	ADDT9
MSD26	116	MDA10	97	HD10	96	HDAT10	3	LDEV10	68	HD10	89	ADDT10
MSD27	115	MDA11	98	HD11	95	HDAT11	208	LDEV11	70	HD11	88	ADDT11
MSD28	113	MDA12	99	HD12	94	HDAT12	207	LDEV12	72	HD12	86	ADDT12
MSD29	112	MDA13	101	HD13	90	HDAT13	6	LDEV13	73	HD13	85	ADDT13
MSD30	111	MDA14	102	HD14	89	HDAT14	205	LDEV14	74	HD14	84	ADDT14
MSD31	110	MDA15	103	HD15	88	HDAT15	203	LDEV15	76	HD15	83	ADDT15

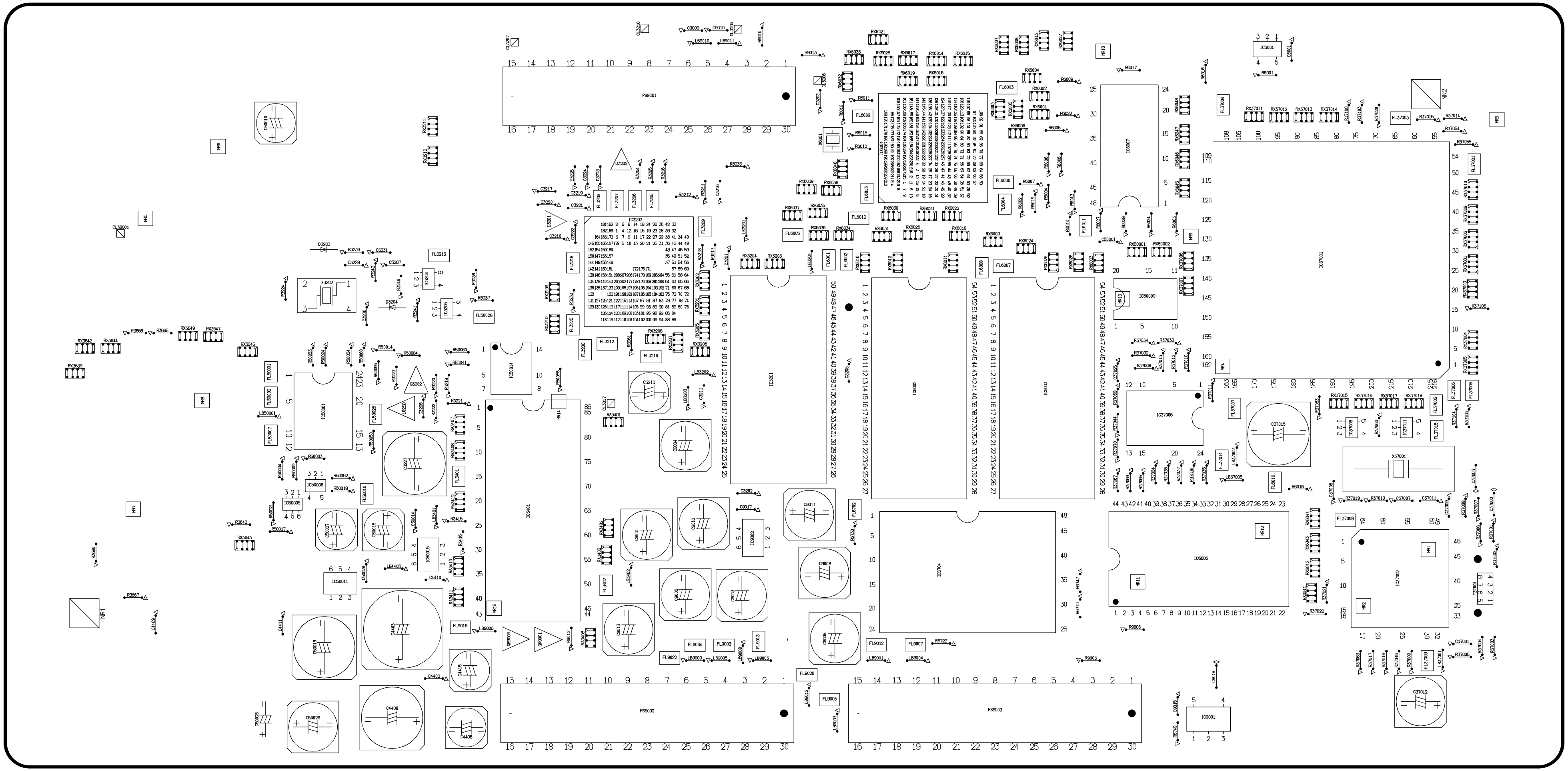
MSA1 - MSA7 ADDRESS BUS LINE (TC24, TC10-2, TC11-2, TC12-2, TC13-2, TC14-2, TC26-2,TC36)

TC	24		10-2		11-2		12-2		13-2		14-2		26-2		36	
SIGNAL NAME	**IC6007/16bit BUFFER**		**IC3203/VAD CON**		**IC3402/AV ENC**		**IC3503/RTSC**		**IC6701/GLUE**		**IC50003/AVDEC**		**IC37001/DV CODEC**		**IC3608/MPEG4**	
	Pin No	Port Name	Pin No	Port Name	Pin No	Port Name	Pin No	Port Name	Pin No	Port Name	Pin No	Port Name	Pin No	Port Name	Pin No	Port Name
MSA1	23	4Y4	107	MAD0	106	HA0	61	HADR1	167	ADRL1	32	HA1	117	AD0	286	ARMA0
MSA2	22	4Y3	106	MAD1	107	HA1	64	HADR2	164	ADRL2	33	HA2	116	AD1	285	ARMA1
MSA3	20	4Y2	105	MAD2	108	HA2	65	HADR3	165	ADRL3	35	HA3	115	AD2	284	ARMA2
MSA4	19	4Y1	104	MAD3	109	HA3	66	HADR4	166	ADRL4	36	HA4	114	AD3	283	ARMA3
MSA5	17	3Y4	103	MAD4	105	HA4	67	HADR5	163	ADRL5	37	HA5	112	AD4	282	ARMA4
MSA6	16	3Y3	102	MAD5	-	-	68	HADR6	170	ADRL6	38	HA6	111	AD5	281	ARMA5
MSA7	14	3Y2	101	MAD6	-	-	69	HADR7	168	ADRL7	40	HA7	110	AD6	280	ARMA6

OVER VIEW



DIGITAL P.C.B. (1/2)

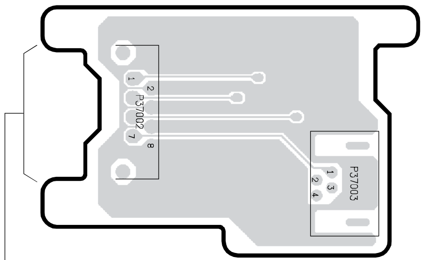


PS9001
PS9002
PS9003
IC3203
IC3201
IC3401
IC6002
IC6003
IC6004
IC6006
IC6007
IC7001
IC37006
IC50001
IC50009
IC37002
IC9001
IC9002
X37001
X3202
NR1
NR2
E
D
C
B
A
1
2
3
4
5
6
7
8
9

(COMPONENT SIDE)

DMR-E100H GCS/GN/GH/GK
DIGITAL P.C.B.(1/2)
(REP3543F:GCS,REP3543FG:GN,REP3543FH:GH,REP3543FJ:GK)

DV JACK P.C.B.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P37003
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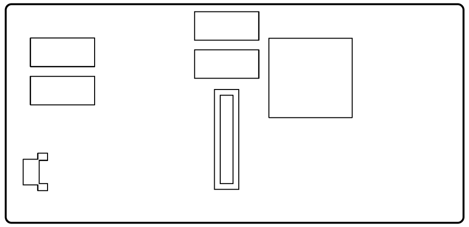
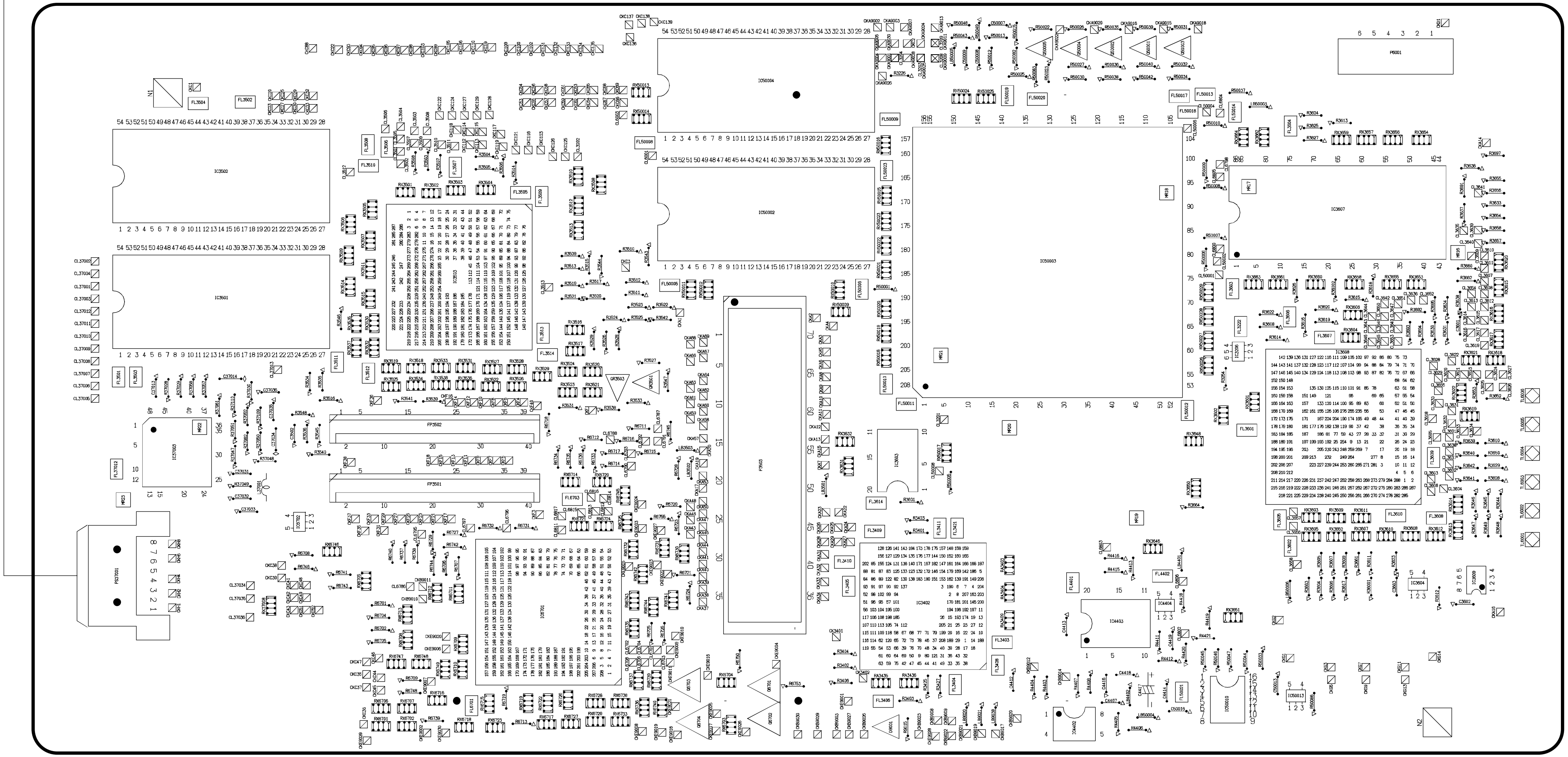
4

OVER VIEW



DIGITAL P.C.B. (2/2)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IC50004
IC50002
IC50003
IC3607
IC3608
IC3701
IC3402
IC4403
FP3502
FP3501
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P6001
P37001
F
E
D
C
B
A
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(FOIL SIDE)

DMR-E100H GCS/GN/GH/GK
DV JACK P.C.B. (REP3540AB)
DIGITAL P.C.B. (2/2) (REP3543F:GCS,REP3543FG:GN,REP3543FH:GH,REP3543FJ:GK)

DIGITAL P.C.B.

Integrated Circuit		
IC3201	C-5	C
IC3203	D-4	C
IC3204	D-3	C
IC3205	C-3	C
IC3206	C-7	F
IC3401	B-4	C
IC3402	B-6	F
IC3501	C-2	F
IC3502	D-2	F
IC3503	C-3	F
IC3603	B-6	F
IC3604	B-8	F
IC3607	D-8	F
IC3608	C-8	F
IC3609	B-9	F
IC4402	A-6	F
IC4403	B-7	F
IC4404	B-7	F
IC6001	E-8	C
IC6002	C-6	C
IC6003	C-6	C
IC6004	D-6	C
IC6006	B-7	C
IC6007	D-7	C
IC6701	B-4	F
IC6702	B-2	F
IC6704	B-6	C
IC9001	A-7	C
IC9002	B-5	C
IC37001	D-8	C
IC37002	B-8	C
IC37003	C-2	F
IC37006	C-7	C
IC37008	C-8	C
IC37011	C-8	C
IC50001	C-2	C
IC50002	D-5	F
IC50003	D-6	F
IC50004	E-5	F
IC50005	B-2	C
IC50006	B-2	C
IC50009	C-7	C
IC50010	A-7	F
IC50011	B-3	C
IC50013	A-8	F
IC50014	C-3	C
IC50015	B-3	C
Transistor		
Q3201	C-3	C
Q3202	C-3	C
Q6701	A-5	F
Q6702	A-5	F
Q6703	A-4	F
Q6704	A-4	F
Q50001	E-7	F
Q50002	E-7	F
Q50003	E-7	F
Q50004	E-6	F
Q50005	E-6	F
Transistor-resistor		
QR3501	C-4	F
QR3503	C-4	F
QR9001	B-4	C
QR9005	B-4	C
Test Point		
CK3401	B-5	F
CK3402	A-5	F
CKA1	C-4	F
CKA2	C-5	F
CKA3	C-5	F
CKA4	C-5	F
CKA5	C-5	F
CKA6	C-5	F
CKA7	B-5	F
CKA8	C-5	F
CKA9	C-5	F
CKA10	C-5	F
CKA11	C-5	F
CKA12	C-5	F
CKA13	C-5	F
CKA14	D-9	F
CKA15	C-5	F
CKA16	B-9	F
CKA17	B-4	F
CKA19	B-4	F
CKA20	C-4	F
CKA22	B-5	F
CKA23	B-5	F
CKA24	B-5	F
CKA25	B-5	F
CKA26	B-5	F
CKA27	B-5	F
CKA28	B-5	F
CKA29	B-5	F
CKA31	B-5	F
CKA32	B-5	F
CKA33	B-5	F
CKA34	B-5	F
CKA37	B-4	F
CKA38	B-4	F
CKA39	B-4	F
CKA40	B-4	F
CKA41	B-4	F
CKA43	B-4	F
CKA44	B-4	F
CKA45	B-4	F
CKA46	B-4	F
CKA47	B-4	F
CKA48	B-4	F
CKA50	B-4	F
CKA53	B-4	F
CKA57	C-4	F
CKA58	C-4	F
CKA59	C-4	F
CKA60	C-4	F
CKA61	C-4	F
CKA62	C-4	F
CKA63	C-4	F
CKA64	C-4	F
CKA66	C-4	F
CKA67	C-4	F
CKA68	C-4	F
CKA69	C-4	F
CKA9001	E-5	F
CKA9002	E-5	F
CKA9003	E-5	F
CKA9004	E-5	F
CKA9005	E-5	F
CKA9007	E-6	F
CKA9009	E-6	F
CKA9011	E-6	F
CKA9013	E-6	F
CKA9015	E-7	F
CKA9016	E-7	F
CKA9018	E-7	F
CKA9020	E-7	F
CKA9022	E-6	F
CKA9024	E-6	F
CKA9025	E-6	F
CKA9026	E-5	F
CKA9028	E-6	F
CKA9030	E-5	F
CKB9003	A-5	F
CKB9008	A-6	F
CKB9009	A-6	F
CKB9010	B-3	F
CKB9011	B-3	F
CKB9012	A-6	F
CKB9014	A-6	F
CKB9017	A-6	F
CKB9019	A-6	F
CKB9020	A-6	F
CKB9021	A-6	F
CKB9022	A-6	F
CKB9023	A-6	F
CKB9026	A-5	F
CKB9027	A-5	F
CKB9029	A-5	F
CKB9030	A-5	F
CKC1	E-2	F
CKC2	E-6	F
CKC3	D-4	F
CKC19	E-3	F
CKC20	D-2	F
CKC22	E-2	F
CKC23	D-2	F
CKC25	D-2	F
CKC27	D-2	F
CKC29	D-2	F
CKC30	D-2	F
CKC32	D-2	F
CKC33	D-2	F
CKC35	A-3	F
CKC36	A-3	F
CKC37	A-3	F
CKC38	B-2	F
CKC39	B-2	F
CKC41	B-2	F
CKC42	B-2	F
CKC43	B-2	F
CKC44	A-3	F
CKC45	A-3	F
CKC46	A-3	F
CKC47	A-3	F
CKC48	B-2	F
CKC49	B-2	F
CKC51	B-2	F
CKC52	B-2	F
CKC53	D-3	F
CKC54	E-3	F
CKC55	D-4	F
CKC56	E-4	F
CKC57	D-4	F
CKC58	E-4	F
CKC59	D-4	F
CKC61	E-4	F
CKC62	D-4	F
CKC63	E-4	F
CKC64	D-4	F
CKC65	E-4	F
CKC66	D-4	F
CKC67	D-4	F
CKC68	E-4	F
CKC69	E-4	F
CKC88	E-2	F
CKC93	E-3	F
CKC94	E-3	F
CKC95	E-3	F
CKC96	E-3	F
CKC97	E-3	F
CKC98	E-3	F
CKC99	E-3	F
CKC100	E-3	F
CKC102	E-4	F
CKC103	E-3	F
CKC105	E-3	F
CKC106	E-3	F
CKC109	E-3	F
CKC110	E-3	F
CKC112	D-3	F
CKC113	D-3	F
CKC114	D-3	F
CKC115	D-3	F
CKC116	D-3	F
CKC117	D-3	F
CKC118	D-3	F
CKC119	D-3	F
CKC121	D-3	F
CKC122	D-3	F
CKC123	D-4	F
CKC124	D-3	F
CKC125	D-4	F
CKC126	D-4	F
CKC127	D-3	F
CKC128	D-3	F
CKC129	D-3	F
CKC131	E-4	F
CKC132	E-4	F
CKC133	E-4	F
CKC134	E-4	F
CKC135	E-4	F
CKC136	E-4	F
CKC137	E-4	F
CKC138	E-4	F
CKC139	E-4	F
CKD1	E-9	F
CKE9001	A-5	F
CKE9002	A-3	F
CKE9003	B-4	F
CKE9004	A-5	F
CKE9005	B-4	F
CKE9006	A-3	F
CKE9007	A-3	F
CKE9008	A-4	F
CKE9009	A-4	F
CKE9010	B-4	F
CKE9011	A-4	F
CKE9016	A-4	F
CKF25	B-3	F
CKF27	B-3	F
CKF29	B-3	F
CKF3	B-4	F
CKF31	B-3	F
CKF33	B-3	F
CKF35	B-3	F
CKF36	C-3	F
CKF37	B-3	F
CKF38	B-3	F
CKF40	C-4	F
CKG1	A-8	F
CKG2	B-8	F
CKG3	A-8	F
CKG5	A-8	F
CKG7	A-8	F
CKG9	A-8	F
CKG11	A-8	F
CKG13	A-8	F
CKG14	A-8	F
CKH1	B-2	F
CKH2	B-2	F
CKH4	B-2	F
CKE9017	A-5	F
CKE9018	A-4	F
CKE9019	A-4	F
CKE9020	B-3	F
CKE9021	A-4	F
CKE9022	B-4	F
CKE9023	B-4	F
CKE9024	B-4	F
CKE9025	A-5	F
CKE9026	A-5	F
CKE9027	B-4	F
CKE9028	A-6	F
CKE9029	A-3	F
CKE9030	A-3	F
CKF1	C-4	F
CKF4	C-3	F
CKF5	B-3	F
CKF6	C-3	F
CKF7	B-3	F
CKF8	C-3	F
CKF9	B-3	F
CKF10	C-3	F
CKF11	B-3	F
CKF12	C-3	F
CKF13	B-3	F
CKF14	C-3	F
CKF15	B-3	F
CKF16	C-3	F
CKF17	B-3	F
CKF18	B-3	F
CKF21	B-3	F
CKF23	B-3	F
CKH6	B-2	F
CKH8	B-2	F
CL3201	C-6	F
CL3202	D-4	F
CL3203	E-6	F
CL3204	E-5	F
CL3205	E-5	C
CL3206	E-5	C
CL3207	E-4	C
CL3208	E-6	F
CL3209	E-6	F
CL3210	E-4	C
CL3217	C-4	C
CL3501	D-3	F
CL3502	D-3	F
CL3503	D-3	F
CL3504	D-3	F
CL3505	D-3	F
CL3506	D-3	F
CL3507	D-3	F
CL3508	D-3	F
CL3509	D-3	F
CL3510	D-3	F
CL3511	D-3	F
CL3512	D-3	F
CL3513	C-4	F
CL3601	C-9	F
CL3602	B-9	F
CL3603	B-8	F
CL3604	B-9	F
CL3605	C-8	F
CL3606	B-8	F
CL3607	C-9	F
CL3608	C-9	F
CL3609	D-9	F
CL3610	D-9	F
CL3611	D-9	F
CL3612	C-9	F
CL3613	C-9	F
CL3614	C-9	F
CL3615	C-9	F
CL3616	C-9	F
CL3617	C-9	F
CL3618	C-8	F
CL3619	C-9	F
CL3620	C-9	F
CL3621	C-9	F
CL3622	C-9	F
CL3623	C-9	F
CL3624	C-9	F
CL3625	C-9	F
CL3626	C-9	F
CL3627	C-9	F
CL3628	C-8	F
CL3629	C-8	F
CL3630	C-8	F
CL3631	C-9	F
CL3632	C-9	F
CL3633	C-9	F
CL3634	C-9	F
CL3635	D-9	F
CL3636	C-8	F
CL3637	B-9	F
CL3638	C-9	F
CL3639	D-9	F
CL3640	D-9	F
CL3641	D-9	F
CL3642	C-8	F
CL3643	C-8	F
CL3644	C-8	F
CL3645	C-8	F
CL3646	C-8	F
CL3647	C-8	F
CL3648	C-8	F
CL3649	C-8	F
CL3650	C-8	F
CL3651	C-8	F
CL3652	C-8	F
CL3653	C-8	F
CL3654	C-9	F
CL3655	C-8	F
CL3656	B-8	F
CL3657	B-8	F
CL3658	B-8	F
CL6001	D-4	F
CL6003	D-4	F
CL6701	A-4	F
CL6702	A-4	F
CL6703	A-4	F
CL6704	A-4	F
CL6706	A-4	F
CL6708	A-4	F
CL6786	B-3	F
CL6787	C-4	F
CL6788	C-4	F
CL6790	B-4	F
CL6791	C-4	F
CL6792	C-4	F
CL6793	C-4	F
CL6795	B-3	F
CL6796	B-3	F
CL6797	B-3	F
CL6798	D-7	F
CL6800	D-7	F
CL6802	B-7	F
CL6803	B-7	F
CL6804	D-7	F
CL6805	D-7	F
CL6806	B-7	F
CL6811	B-4	F
CL6812	B-4	F
CL6813	B-4	F
CL6814	B-4	F
CL6815	B-4	F
CL6816	B-4	F
CL6817	B-4	F
CL30001	D-1	C
CL37001	C-1	F
CL37002	D-1	F
CL37003	C-1	F
CL37004	C-1	F
CL37005	C-1	F
CL37006	C-1	F
CL37007	C-1	F
CL37008	C-1	F
CL37009	C-1	F
CL37010	C-1	F
CL37011	C-1	F
CL37012	C-1	F
CL37013	C-2	F
CL37034	B-2	F
CL37035	B-2	F
CL37036	B-2	F
CL50001	C-7	F
CL50002	D-7	F
CL50004	D-7	F
CL50006	D-7	F
CL50008	B-6	F
TL6001	B-9	F
TL6002	B-9	F
TL6003	B-9	F
TL6004	C-9	F
TL6005	C-9	F
TL6006	C-9	F
Connector		
FP3501	B-3	F
FP3502	C-3	F
P3503	B-5	F
P6001	E-8	F
PS9001	D-4	C
PS9002	A-4	C
PS9003	A-6	C
PS37001	B-1	F
Diode		
D3201	D-4	C
D3202	D-4	C
D3203	D-2	C
D3204	C-3	C
D9001	A-5	F
Crystal Osillator		
X3202	C-3	C
X6001	D-5	C
X37001	B-8	C
Coil		
L37001	B-2	F
LB3201	D-5	C
LB3202	C-5	C
LB3203	C-4	C
LB3204	D-5	C
LB3401	B-3	C
LB3402	B-4	C
LB3501	B-5	F
LB3502	B-4	F
LB3503	C-4	F
LB4401	B-7	F
LB4402	A-7	F
LB4403	B-3	C
LB9001	A-5	C
LB9003	A-5	C
LB9004	A-6	C
LB9005	A-5	C
LB9006	B-3	C
LB9007	A-5	C
LB9008	A-5	C
LB9009	A-4	C
LB9010	E-5	C
LB9011	E-5	C
LB9012	A-5	C
LB9020	A-6	F
LB9021	A-6	F
LB9038	A-6	F
LB37001	A-9	C
LB37002	C-7	C
LB37005	B-7	C
LB50001	C-2	C
LB50003	D-7	F
LB50004	A-7	F
LB50005	E-6	F
LB50006	B-8	F
Filter		
FL3205	D-4	C
FL3206	D-4	C
FL3207	D-4	C
FL3208	D-4	C
FL3209	D-5	C
FL3212	C-4	C
FL3213	D-3	C
FL3216	C-4	C
FL3218	D-4	C
FL3220	C-4	C
FL3222	C-7	F
FL3225	C-4	C
FL3401	B-3	C
FL3402	B-4	C
FL3403	A-6	F
FL3404	A-6	F
FL3405	B-5	F
FL3406	A-5	F
FL3409	B-5	F
FL3410	B-5	F
FL3411	B-6	F
FL3421	B-6	F
FL3428	A-6	F
FL3501	C-1	F
FL3502	D-2	F
FL3503	C-1	F
FL3504	D-2	F
FL3505	D-3	F
FL3506	D-3	F
FL3507	D-3	F
FL3508	D-3	F
FL3509	D-4	F
FL3510	D-3	F
FL3511	C-2	F
FL3512	C-3	F
FL3513	C-4	F
FL3514	C-4	F
FL3601	C-7	F
FL3602	B-8	F
FL3603	C-7	F
FL3604	D-8	F
FL3605	B-8	F
FL3606	C-8	F
FL3607	C-8	F
FL3608	B-8	F
FL3609	B-8	F
FL3610	B-8	F
FL3614	B-5	F
FL4401	B-6	F
FL4402	B-7	F
FL6001	D-5	C
FL6002	D-5	C
FL6003	E-6	C
FL6004	D-6	C
FL6005	D-5	C
FL6006	D-6	C
FL6007	D-6	C
FL6008	D-6	C
FL6009	D-5	C
FL6010	B-8	C
FL6011	D-7	C
FL6012	D-5	C
FL6013	D-5	C
FL6701	A-3	F
FL6702	B-5	C
FL6703	B-4	F
FL9003	B-5	C
FL9004	B-4	C
FL9005	A-5	C
FL9007	B-6	C
FL9012	B-5	C
FL9013	B-5	C
FL9016	B-3	C
FL9020	A-5	C
FL9022	A-4	C
FL37001	D-9	C
FL37002	C-8	C
FL37003	D-8	C
FL37004	D-7	C
FL37005	C-9	C
FL37006	C-9	C
FL37007	C-7	C
FL37008	B-8	C
FL37009	A-8	C
FL37012	B-1	F
FL37014	C-7	C
FL37015	C-8	C
FL50001	C-2	C
FL50002	C-2	C
FL50005	C-4	F
FL50006	C-5	F
FL50007	C-2	C
FL50008	D-4	F
FL50009	D-5	F
FL50010	C-5	F
FL50011	C-6	F
FL50012	C-7	F
FL50013	D-7	F
FL50014	D-7	F
FL50016	B-3	C
FL50017	D-7	F
FL50018	D-7	F
FL50019	D-6	F
FL50020	D-6	F
FL50021	A-7	F
FL50023	D-5	F
FL50025	C-3	C
FL50028	C-3	C
Capacitor		
C3201	D-5	C
C3202	B-5	C
C3203	D-5	C
C3205	C-5	C
C3207	D-3	C
C3211	C-5	C
C3213	C-4	C
C3216	D-5	C
C3217	D-4	C
C3218	D-4	C
C3219	D-4	C
C3220	D-4	C
C3221	D-4	C
C3222	D-4	C
C3223	D-4	C
C3224	D-4	C
C3225	D-4	C
C3226	C-3	C
C3227	C-3	C
C3229	D-3	C
C3230	C-3	C
C3231	D-3	C
C3502	C-2	F
C3601	C-9	F
C3602	B-9	F
C3603	B-8	F
C4402	A-3	C
C4403	B-3	C
C4406	A-3	C
C4407	A-7	F
C4408	A-3	C
C4409	B-2	C
C4410	B-3	C
C4411	B-2	C
C4412	A-6	F
C4413	B-6	F
C4414	A-7	F
C4415	A-3	C
C4416	A-7	F
C4417	A-7	F
C4418	A-7	F
C4419	A-7	F
C6001	E-8	C
C9001	B-4	C
C9003	B-5	C
C9004	C-4	C
C9005	B-5	C
C9006	B-4	C
C9008	B-5	C
C9009	E-4	C
C9010	E-5	C
C9011	B-5	C
C9013	B-4	C
C9015	A-7	C
C9016	B-5	C
C9017	B-5	C
C9019	A-7	C
C37001	B-9	C
C37002	B-9	C
C37003	B-9	C
C37007	B-8	C
C37008	B-8	C
C37009	B-9	C
C37011	B-8	C
C37012	A-8	C
C37013	C-1	F
C37014	C-2	F
C37015	C-8	C
C37025	C-7	C
C37031	B-2	F
C37032	B-2	F
C37033	B-2	F
C37034	C-2	F
C37035	C-2	F
C37036	C-2	F
C50001	D-7	C
C50007	E-6	F
C50008	E-6	F
C50009	E-6	F
C50010	D-2	C
C50013	A-8	F
C50014	B-3	C
C50015	B-3	C
C50016	A-7	F
C50018	B-2	C
C50025	A-2	C
C50026	A-2	C
C50027	B-3	C
C50028	B-3	C
Resistor		
R3204	D-4	C
R3205	D-4	C
R3211	D-5	C
R3212	D-4	C
R3216	D-4	C
R3217	D-5	C
R3218	D-5	C
R3219	C-3	C
R3220	C-3	C
R3221	C-3	C
R3222	C-3	C
R3223	C-3	C
R3224	C-2	C
R3226	E-6	F
R3232	C-4	C
R3233	D-5	C
R3237	C-3	C
R3238	D-3	C
R3239	D-3	C
R3240	C-3	C
R3241	C-3	C
R3242	D-3	C
R3254	C-7	F
R3261	C-4	C
R3401	B-6	F
R3402	A-5	F
R3403	A-6	F
R3404	A-5	F
R3406	A-5	F
R3415	B-3	C
R3416	B-3	C
R3423	B-6	F
R3425	A-6	F
R3427	A-6	F
R3503	D-3	F
R3504	D-3	F
R3505	D-3	F
R3506	D-3	F
R3507	D-3	F
R3508	D-3	F
R3509	D-4	F
R3510	D-4	F
R3511	C-4	F
R3512	C-4	F
R3513	D-4	F
R3514	D-3	F
R3515	D-4	F
R3516	C-2	F
R3517	C-4	F
R3519	C-4	F
R3520	C-4	F
R3521	C-4	F
R3522	C-4	F
R3523	C-4	F
R3524	C-4	F
R3525	C-4	F
R3526	C-4	F
R3527	C-4	F
R3528	C-4	F
R3529	C-4	F
R3531	C-4	F
R3533	C-4	F
R3534	C-2	F
R3535	C-2	F
R3536	C-2	F
R3538	C-4	F
R3539	C-3	F
R3540	C-2	F
R3541	C-3	F
R3542	C-4	F
R3543	D-4	F
R3544	D-4	F
R3545	C-2	F
R3546	C-2	F
R3547	C-4	F
R3548	C-2	F
R3601	B-6	F
R3603	B-8	F
R3604	B-8	F
R3605	B-8	F
R3606	B-8	F
R3607	B-8	F
R3608	C-8	F
R3609	B-8	F
R3610	C-9	F
R3611	B-8	F
R3612	B-8	F
R3613	D-8	F
R3614	C-8	F
R3615	C-8	F
R3616	C-8	F
R3617	B-8	F
R3618	C-8	F
R3619	C-8	F
R3620	C-8	F
R3622	C-8	F
R3623	B-8	F
R3624	D-8	F
R3625	D-8	F
R3626	C-8	F
R3627	D-8	F
R3628	B-9	F
R3629	B-9	F
R3630	C-8	F
R3631	C-9	F
R3633	D-9	F
R3634	C-9	F
R3636	D-9	F
R3637	D-9	F
R3638	C-9	F
R3639	C-9	F
R3640	C-9	F
R3641	B-9	F
R3642	B-9	F
R3643	B-2	C
R3644	B-9	F
R3645	B-9	F
R3646	B-9	F
R3647	B-9	F
R3648	B-9	F
R3649	B-9	F
R3650	C-9	F
R3652	C-9	F
R3653	C-9	F
R3654	D-9	F
R3655	D-9	F
R3656	D-9	F
R3657	D-9	F
R3658	D-9	F
R3660	D-9	F
R3661	B-8	F
R3662	C-9	F
R3664	B-7	F
R3665	C-2	C
R3666	C-1	C
R3667	B-1	C
R3680	B-1	C
R3691	D-9	F
R3692	C-8	F
R3693	C-8	F
R3694	C-8	F
R3695	C-8	F
R3697	D-9	F
R4403	A-6	F
R4404	A-6	F
R4405	A-7	F
R4406	A-7	F
R4407	A-7	F
R4408	A-7	F
R4411	A-7	F
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R4413	B-7	F
R4415	B-7	F
R4416	B-7	F
R4418	B-7	F
R4419	B-7	F
R4420	A-7	F
R4421	A-7	F
R6001	E-8	C
R6002	D-6	C
R6003	D-7	C
R6004	D-6	C
R6005	D-6	C
R6006	D-6	C
R6007	D-6	C
R6008	D-6	C
R6009	E-6	C
R6010	D-5	C
R6011	D-5	C
R6012	D-5	C
R6013	D-7	C
R6014	D-7	C
R6015	D-5	C
R6016	B-8	C
R6017	E-7	C
R6018	E-7	C
R6019	D-6	C
R6022	D-6	C
R6024	D-7	C
R6027	D-7	C
R6029	D-7	C
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R6704	B-3	F
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R6708	B-2	F
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R6743	B-2	F
R6744	B-3	F
R6745	C-4	F
R6746	B-2	F
R6747	B-7	C
R6748	A-3	F
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R6750	A-5	F
R6753	A-5	F
R6755	B-4	F
R9003	A-7	C
R9006	B-7	C
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R9012	B-4	C
R9013	E-5	C
R9015	A-6	F
R36001	B-8	F
R36002	C-8	F
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R37002	B-9	C
R37003	B-9	C
R37004	B-9	C
R37005	A-9	C
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R37008	B-9	C
R37009	A-8	C
R37010	C-7	C
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R37012	C-7	C
R37013	C-7	C
R37014	D-9	C
R37015	D-8	C
R37016	A-8	C
R37017	A-8	C
R37018	B-8	C
R37019	B-8	C
R37020	D-8	C
R37021	B-8	C
R37022	B-8	C
R37028	C-2	F
R37029	C-2	F
R37030	C-2	F
R37032	C-7	C
R37033	C-7	C
R37034	C-7	C
R37035	B-7	C
R37036	B-7	C
R37037	B-7	C
R37038	B-7	C
R37044	C-7	C
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R37047	C-2	F
R37048	B-2	F
R37049	B-2	F
R37050	C-2	F
R37051	C-2	F
R37052	C-2	F
R37053	C-8	C
R37054	D-9	C
R37055	D-9	C
R37057	C-2	F
R37058	C-2	F
R37060	C-8	C
R37061	C-2	F
R37062	C-2	F
R37063	A-8	C
R37064	B-7	C
R37065	B-7	C
R37066	B-7	C
R37067	B-7	C
R37068	C-7	C
R37069	C-7	C
R37070	C-7	C
R37100	D-8	C
R37103	D-8	C
R37104	C-9	C
R37105	C-9	C
R37106	C-9	C
R37109	C-2	F
R37110	C-2	F
R50001	C-5	F
R50002	B-2	C
R50003	C-2	C
R50004	B-2	C
R50005	B-6	F
R50006	D-7	F
R50007	D-7	F
R50008	D-7	F
R50009	D-7	F
R50010	D-7	F
R50012	E-6	F
R50013	E-6	F
R50014	C-3	C
R50015	E-6	F
R50017	B-2	C
R50018	B-3	C
R50021	B-2	C
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R50037	D-7	F
R50038	E-7	F
R50039	E-7	F
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R50043	E-6	F
R50044	A-7	F
R50045	A-7	F
R50046	A-7	F
R50047	A-7	F
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R50049	E-6	F
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R50053	C-2	C
R50054	C-3	C
R50055	C-3	C
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RA3409	B-6	F
RA3410	B-3	C
RA3411	B-3	C
RA3412	B-3	C
RA3435	A-5	F
RA3436	A-6	F
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RX3202	D-5	C
RX3203	D-5	C
RX3204	D-5	C
RX3205	C-5	C
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RX3208	C-4	C
RX3209	C-4	C
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RX3604	C-8	F
RX3605	B-8	F
RX3606	C-8	F
RX3607	B-8	F
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RX3610	B-8	F
RX3611	B-8	F
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RX3616	C-9	F
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RX3618	C-9	F
RX3619	C-9	F
RX3620	D-9	F
RX3621	C-9	F
RX3622	C-9	F
RX3631	B-5	F
RX3632	C-5	F
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RX3643	B-2	C
RX3644	C-1	C
RX3645	C-2	C
RX3646	B-7	F
RX3647	C-2	C
RX3648	C-7	F
RX3649	C-2	C
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RX3651	B-7	F
RX3652	B-8	F
RX3653	C-8	F
RX3654	D-8	F
RX3655	C-8	F
RX3656	D-8	F
RX3657	D-8	F
RX3658	C-8	F
RX3659	D-8	F
RX3660	C-8	F
RX3661	C-8	F
RX3662	D-8	F
RX3663	C-7	F
RX3664	D-7	F
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RX6003	D-6	C
RX6004	E-6	C
RX6005	D-6	C
RX6006	D-6	C
RX6007	E-6	C
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RX6012	D-6	C
RX6013	E-6	C
RX6014	E-6	C
RX6015	E-6	C
RX6016	E-6	C
RX6017	E-6	C
RX6018	D-6	C
RX6019	E-6	C
RX6020	D-6	C
RX6021	E-5	C
RX6022	D-6	C
RX6023	D-7	C
RX6024	D-6	C
RX6025	E-6	C
RX6026	D-6	C
RX6027	E-6	C
RX6028	D-7	C
RX6029	D-6	C
RX6030	D-6	C
RX6031	D-5	C
RX6032	E-5	C
RX6033	E-5	C
RX6034	D-5	C
RX6035	D-5	C
RX6036	D-5	C
RX6037	D-5	C
RX6038	D-5	C
RX6039	D-5	C
RX6040	D-5	C
RX6041	B-8	C
RX6042	B-8	C
RX6043	B-8	C
RX6044	B-8	C
RX6045	D-7	C
RX6046	D-7	C
RX6047	D-7	C
RX6048	D-7	C
RX6701	A-3	F
RX6702	A-3	F
RX6703	A-5	F
RX6704	A-5	F
RX6705	B-3	F
RX6706	A-3	F
RX6707	A-3	F
RX6708	A-3	F
RX6709	A-3	F
RX6710	A-3	F
RX6711	B-3	F
RX6712	B-3	F
RX6713	B-3	F
RX6714	B-4	F
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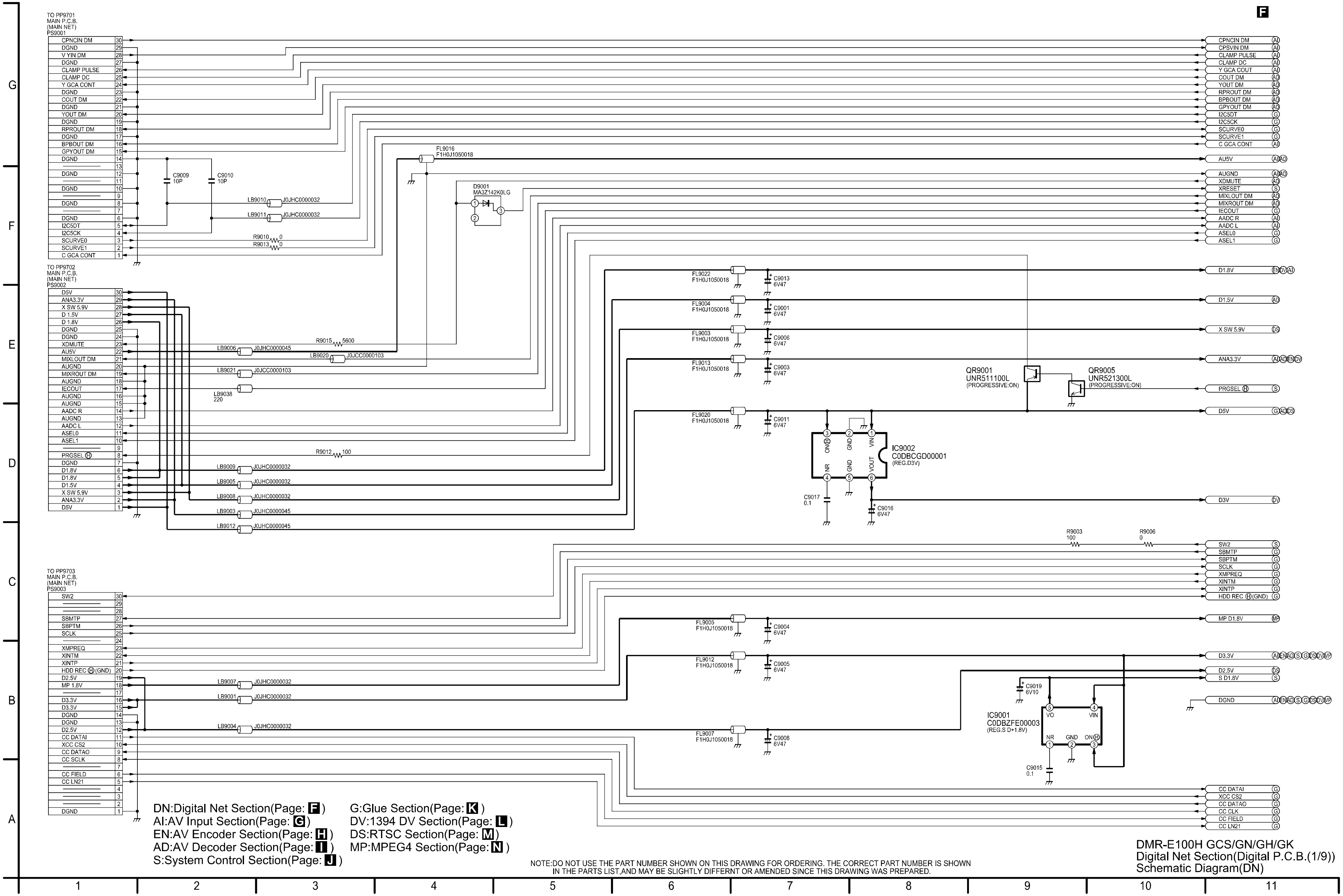
RX6736	A-4	F
RX6737	A-4	F
RX6738	A-4	F
RX6739	A-4	F
RX6740	A-4	F
RX6741	B-4	F
RX6742	B-4	F
RX6743	B-4	F
RX6744	B-4	F
RX6745	B-4	F
RX6746	B-2	F
RX6747	A-3	F
RX6748	A-3	F
RX6749	A-3	F
RX37001	D-9	C
RX37002	D-9	C
RX37003	C-9	C
RX37004	C-9	C
RX37005	C-9	C
RX37006	D-7	C
RX37007	C-7	C
RX37008	B-2	F
RX37009	D-9	C
RX37010	D-9	C
RX37011	D-7	C
RX37012	D-8	C
RX37013	D-8	C
RX37014	D-8	C
RX37015	C-8	C
RX37016	C-8	C
RX37017	C-8	C
RX37018	C-8	C
RX50001	D-7	C
RX50002	D-7	C
RX50009	C-5	F
RX50010	C-5	F
RX50011	C-4	F
RX50012	C-4	F
RX50013	D-4	F
RX50014	D-4	F
RX50015	D-5	F
RX50016	D-5	F
RX50017	C-6	F
RX50018	C-5	F
RX50019	C-5	F
RX50020	C-5	F
RX50021	D-5	F
RX50022	D-5	F
RX50023	D-5	F
RX50024	D-6	F
RX50025	D-6	F
RX50026	C-7	F
RX50027	C-7	F
RX50028	C-7	F
RX50029	C-7	F
Transformer		
T37001	B-9	C

ADDRESS INFORMATION
C……COMPONENT SIDE
F……FOIL SIDE

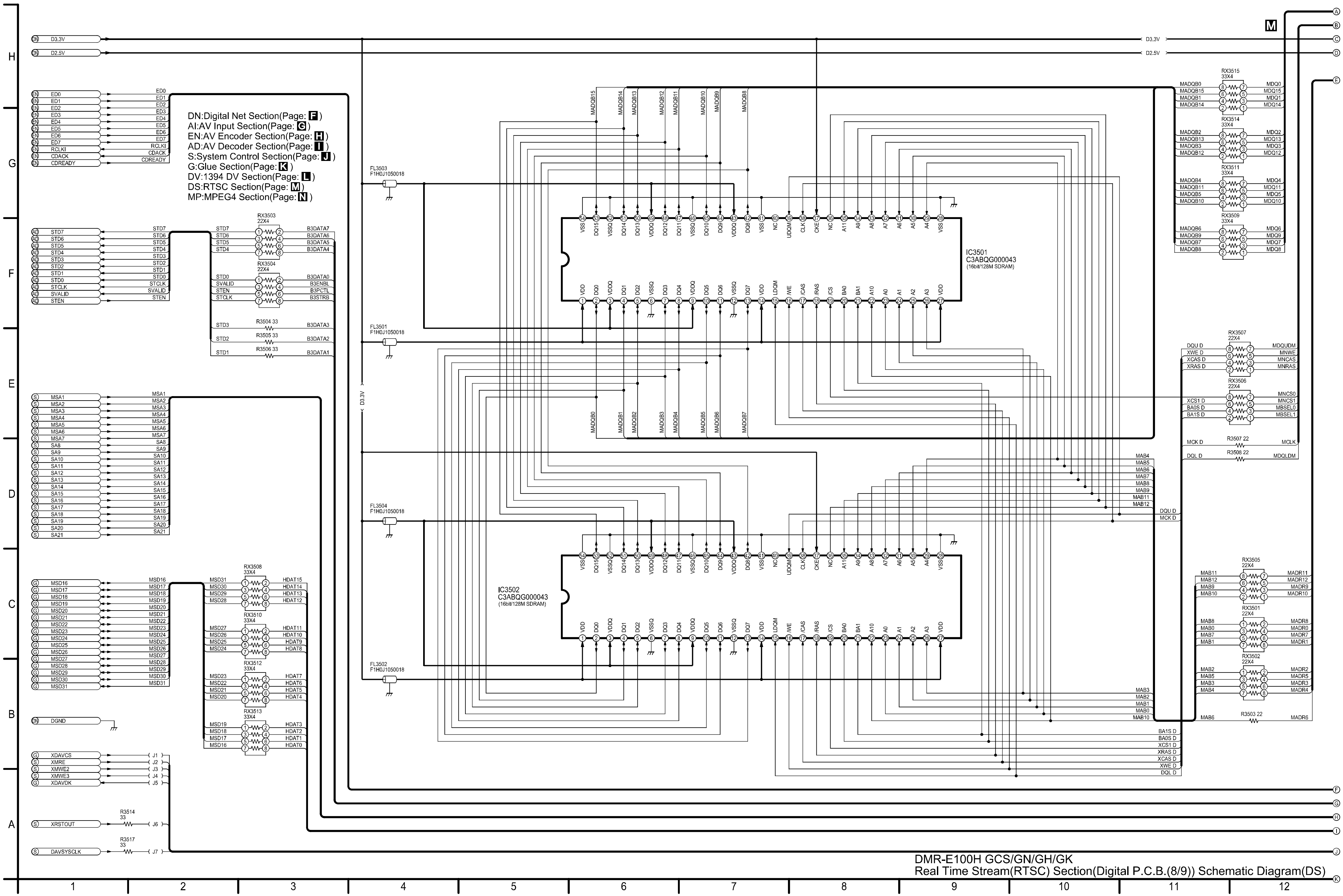

TO PP9701
MAIN P.C.B.
(MAIN NET)
PS9001
CPNCIN DM
DGND
V YIN DM
CLAMP PULSE
CLAMP DC
Y GCA CONT
COUT DM
YOUT DM
RPROUT DM
BPBOUT DM
GPYOUT DM
I2C5DT
I2C5CK
SCURVE0
SCURVE1
C GCA CONT
C9009
10P
C9010
10P
LB9010
J0JHC0000032
LB9011
J0JHC0000032
R9010
0
R9013
0
FL9016
F1H0J1050018
D9001
MA3Z142K0LG
CPSVIN DM
Y GCA COUT
BPBOUT DM
I2C5CK
C GCA CONT
AU5V
AUGND
XDMUTE
XRESET
MIXLOUT DM
MIXROUT DM
IECOUT
AADC R
AADC L
ASEL0
ASEL1
TO PP9702
MAIN P.C.B.
(MAIN NET)
PS9002
D5V
ANA3.3V
X SW 5.9V
D 1.5V
D 1.8V
PRGSEL Ⓗ
D1.8V
D1.5V
LB9006
J0JHC0000045
R9015
5600
LB9020
J0JCC0000103
LB9021
J0JCC0000103
LB9038
220
R9012
100
LB9009
J0JHC0000032
LB9005
J0JHC0000032
LB9008
J0JHC0000032
LB9003
J0JHC0000045
LB9012
J0JHC0000045
FL9022
FL9004
FL9003
FL9013
FL9020
F1H0J1050018
C9013
C9001
C9006
C9003
C9011
6V47
QR9001
UNR511100L
(PROGRESSIVE:ON)
QR9005
UNR521300L
(PROGRESSIVE:ON)
IC9002
C0DBCGD00001
(REG.D3V)
ON Ⓗ
GND
VIN
NR
VOUT
C9017
0.1
C9016
6V47
D3V
R9003
100
R9006
0
TO PP9703
MAIN P.C.B.
(MAIN NET)
PS9003
SW2
SBMTP
SBPTM
SCLK
XMPREQ
XINTM
XINTP
HDD REC Ⓗ(GND)
D2.5V
MP 1.8V
D3.3V
CC DATAI
XCC CS2
CC DATAO
CC SCLK
CC FIELD
CC LN21
LB9007
LB9001
LB9004
J0JHC0000032
FL9005
FL9012
FL9007
F1H0J1050018
C9004
C9005
C9008
6V47
MP D1.8V
S D1.8V
C9019
6V10
IC9001
C0DBZFE00003
(REG.S D+1.8V)
VO
VIN
NR
GND
ON Ⓗ
C9015
0.1
CC CLK
G
F
E
D
C
B
A
1
2
3
4
5
6
7
8
9
10
11

DN:Digital Net Section(Page: **F**)
AI:AV Input Section(Page: **G**)
EN:AV Encoder Section(Page: **H**)
AD:AV Decoder Section(Page: **I**)
S:System Control Section(Page: **J**)

G:Glue Section(Page: **K**)
DV:1394 DV Section(Page: **L**)
DS:RTSC Section(Page: **M**)
MP:MPEG4 Section(Page: **N**)

NOTE:DO NOT USE THE PART NUMBER SHOWN ON THIS DRAWING FOR ORDERING. THE CORRECT PART NUMBER IS SHOWN IN THE PARTS LIST,AND MAY BE SLIGHTLY DIFFERNT OR AMENDED SINCE THIS DRAWING WAS PREPARED.

DMR-E100H GCS/GN/GH/GK
Digital Net Section(Digital P.C.B.(1/9))
Schematic Diagram(DN)


M
DN:Digital Net Section(Page: F)
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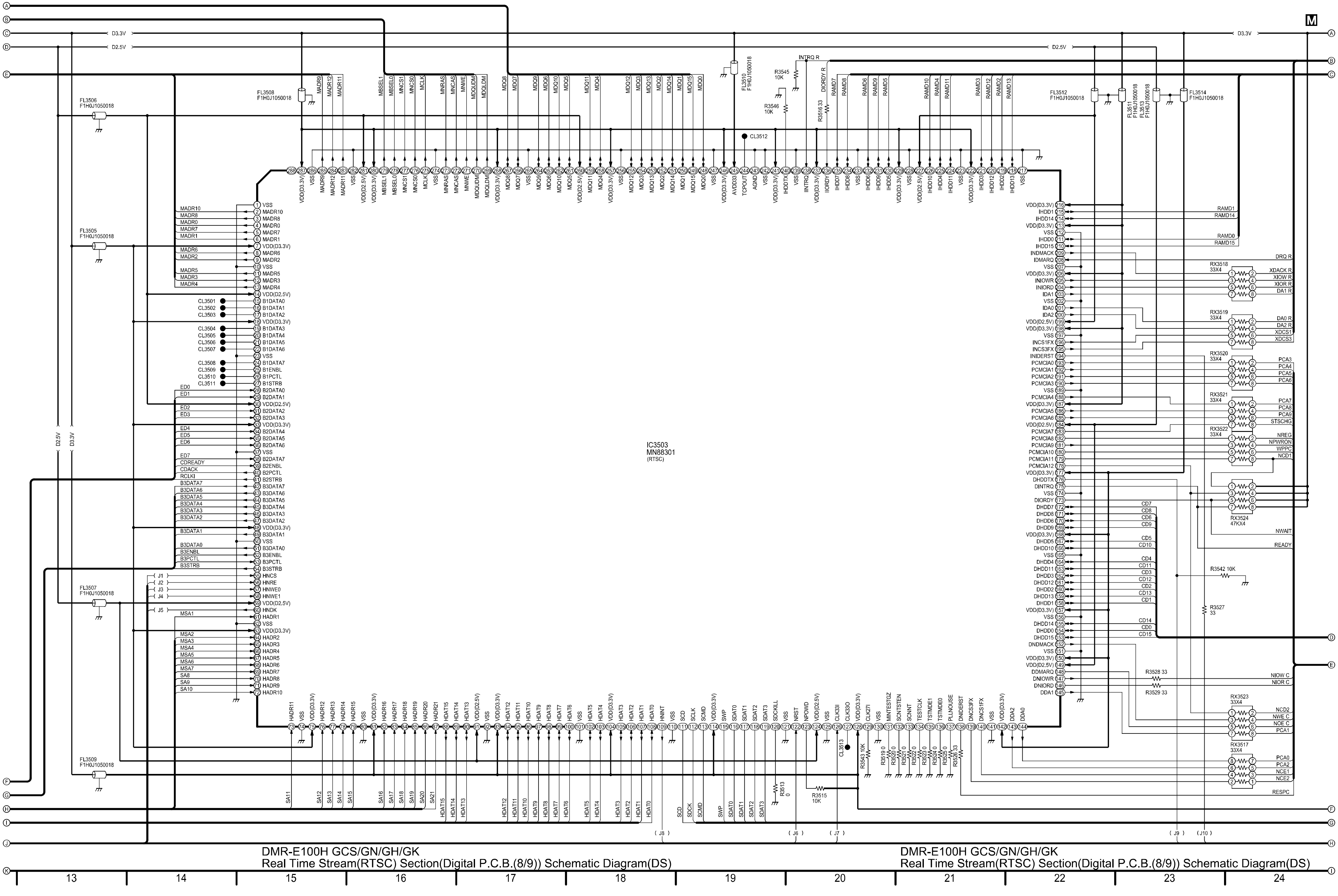
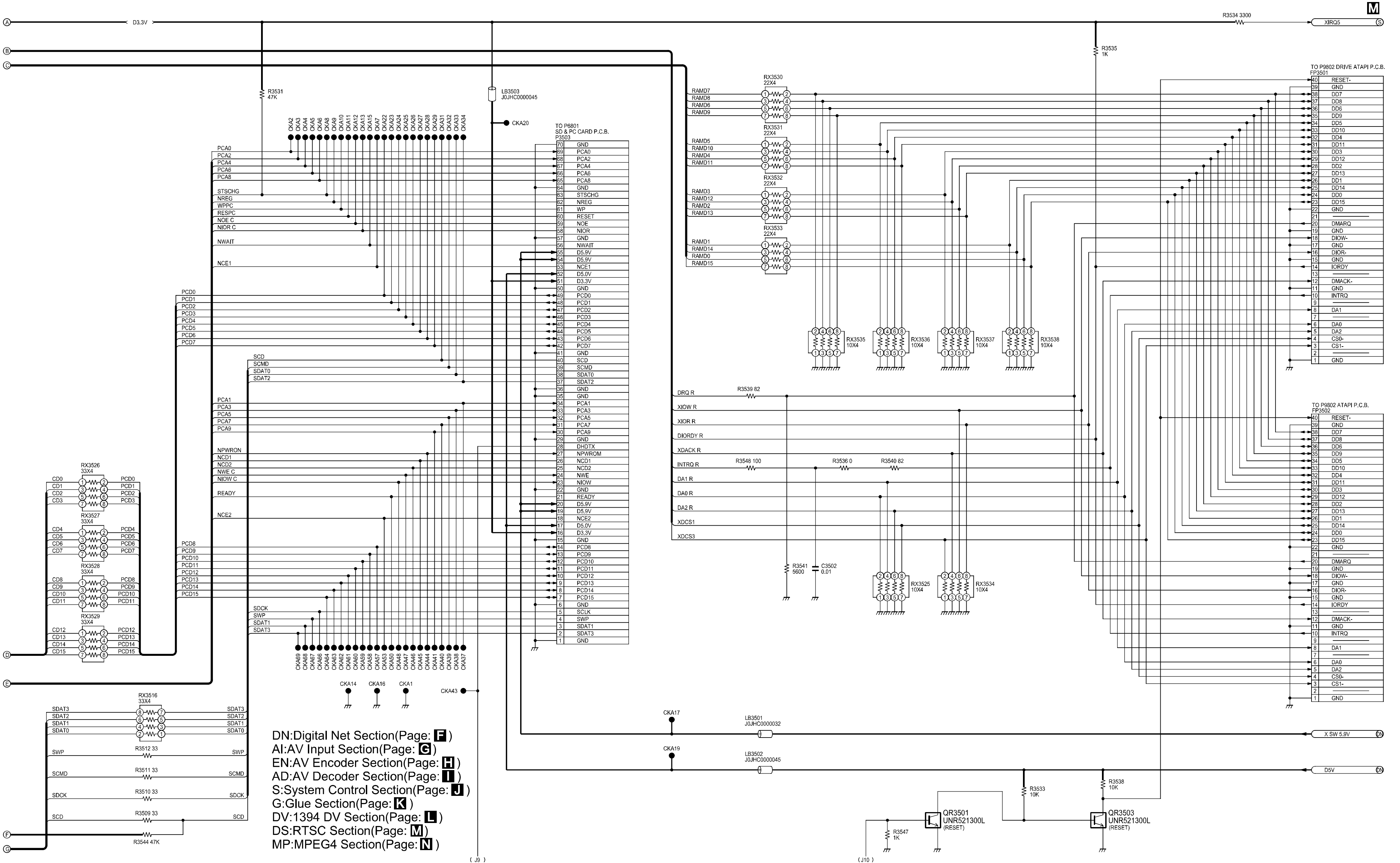
G:Glue Section(Page: K)
DV:1394 DV Section(Page: L)
DS:RTSC Section(Page: M)
MP:MPEG4 Section(Page: N)
D3.3V
D2.5V
ED0
ED1
ED2
ED3
ED4
ED5
ED6
ED7
RCLKI
CDACK
CDREADY
STD7
STD6
STD5
STD4
STD3
STD2
STD1
STD0
STCLK
SVALID
STEN
RX3503 22X4
RX3504 22X4
R3504 33
R3505 33
R3506 33
B3DATA7
B3DATA6
B3DATA5
B3DATA4
B3DATA0
B3ENBL
B3PCTL
B3STRB
B3DATA3
B3DATA2
B3DATA1
MSA1
MSA2
MSA3
MSA4
MSA5
MSA6
MSA7
SA8
SA9
SA10
SA11
SA12
SA13
SA14
SA15
SA16
SA17
SA18
SA19
SA20
SA21
MSD16
MSD17
MSD18
MSD19
MSD20
MSD21
MSD22
MSD23
MSD24
MSD25
MSD26
MSD27
MSD28
MSD29
MSD30
MSD31
RX3508 33X4
RX3510 33X4
RX3512 33X4
RX3513 33X4
HDAT15
HDAT14
HDAT13
HDAT12
HDAT11
HDAT10
HDAT9
HDAT8
HDAT7
HDAT6
HDAT5
HDAT4
HDAT3
HDAT2
HDAT1
HDAT0
DGND
XDAVCS
XMRE
XMWE2
XMWE3
XDAVDK
J1
J2
J3
J4
J5
R3514 33
XRSTOUT
J6
R3517 33
DAVSYSCLK
J7
FL3503 F1H0J1050018
FL3501 F1H0J1050018
FL3504 F1H0J1050018
FL3502 F1H0J1050018
IC3501 C3ABQG000043 (16bit/128M SDRAM)
IC3502 C3ABQG000043 (16bit/128M SDRAM)
VSS
DQ15
VSSQ
DQ14
DQ13
VDDQ
DQ12
DQ11
DQ10
DQ9
DQ8
NC
UDQM
CLK
CKE
A11
A9
A8
A7
A6
A5
A4
VDD
DQ0
DQ1
DQ2
DQ3
DQ4
DQ5
DQ6
DQ7
LDQM
/WE
/CAS
/RAS
/CS
BA0
BA1
A10
A0
A1
A2
A3
MADQB0
MADQB1
MADQB2
MADQB3
MADQB4
MADQB5
MADQB6
MADQB7
MADQB8
MADQB9
MADQB10
MADQB11
MADQB12
MADQB13
MADQB14
MADQB15
RX3515 33X4
RX3514 33X4
RX3511 33X4
RX3509 33X4
MDQ0
MDQ1
MDQ2
MDQ3
MDQ4
MDQ5
MDQ6
MDQ7
MDQ8
MDQ9
MDQ10
MDQ11
MDQ12
MDQ13
MDQ14
MDQ15
RX3507 22X4
DQU D
XWE D
XCAS D
XRAS D
MDQUDM
MNWE
MNCAS
MNRAS
RX3506 22X4
XCS1 D
BA0S D
BA1S D
MNCS0
MNCS1
MBSEL0
MBSEL1
MCK D
R3507 22
MCLK
DQL D
R3508 22
MDQLDM
MAB0
MAB1
MAB2
MAB3
MAB4
MAB5
MAB6
MAB7
MAB8
MAB9
MAB10
MAB11
MAB12
RX3505 22X4
RX3501 22X4
RX3502 22X4
R3503 22
MADR0
MADR1
MADR2
MADR3
MADR4
MADR5
MADR6
MADR7
MADR8
MADR9
MADR10
MADR11
MADR12
A
B
C
D
E
F
G
H
I
J
K
1
2
3
4
5
6
7
8
9
10
11
12

DMR-E100H GCS/GN/GH/GK
Real Time Stream(RTSC) Section(Digital P.C.B.(8/9)) Schematic Diagram(DS)


M
IC3503
MN88301
(RTSC)
D3.3V
D2.5V
FL3505 F1H0J1050018
FL3506 F1H0J1050018
FL3507 F1H0J1050018
FL3508 F1H0J1050018
FL3509 F1H0J1050018
FL3510 F1H0J1050018
FL3511 F1H0J1050018
FL3512 F1H0J1050018
FL3513 F1H0J1050018
FL3514 F1H0J1050018
CL3501
CL3502
CL3503
CL3504
CL3505
CL3506
CL3507
CL3508
CL3509
CL3510
CL3511
CL3512
CL3513
R3545 10K
R3546 10K
R3516 33
INTRQ R
DIORDY R
RX3517 33X4
RX3518 33X4
RX3519 33X4
RX3520 33X4
RX3521 33X4
RX3522 33X4
RX3523 33X4
RX3524 47KX4
R3542 10K
R3527 33
R3528 33
R3529 33
R3513 0
R3515 10K
R3543 10K
R3519 0
R3520 0
R3521 0
R3522 0
R3523 0
R3524 0
R3525 0
R3526 33
J1
J2
J3
J4
J5
J6
J7
J8
J9
J10
DRQ R
XDACK R
XIOW R
XIOR R
DA1 R
DA0 R
DA2 R
XDCS1
XDCS3
PCA0
PCA1
PCA2
PCA3
PCA4
PCA5
PCA6
PCA7
PCA8
PCA9
STSCHG
NREG
NPWRON
WPPC
NCD1
NCD2
NWE C
NOE C
NCE1
NCE2
NWAIT
READY
NIOW C
NIOR C
RESPC
13
14
15
16
17
18
19
20
21
22
23
24
A
B
C
D
E
F
G
H
I
J
K

DMR-E100H GCS/GN/GH/GK
Real Time Stream(RTSC) Section(Digital P.C.B.(8/9)) Schematic Diagram(DS)

DMR-E100H GCS/GN/GH/GK
Real Time Stream(RTSC) Section(Digital P.C.B.(8/9)) Schematic Diagram(DS)

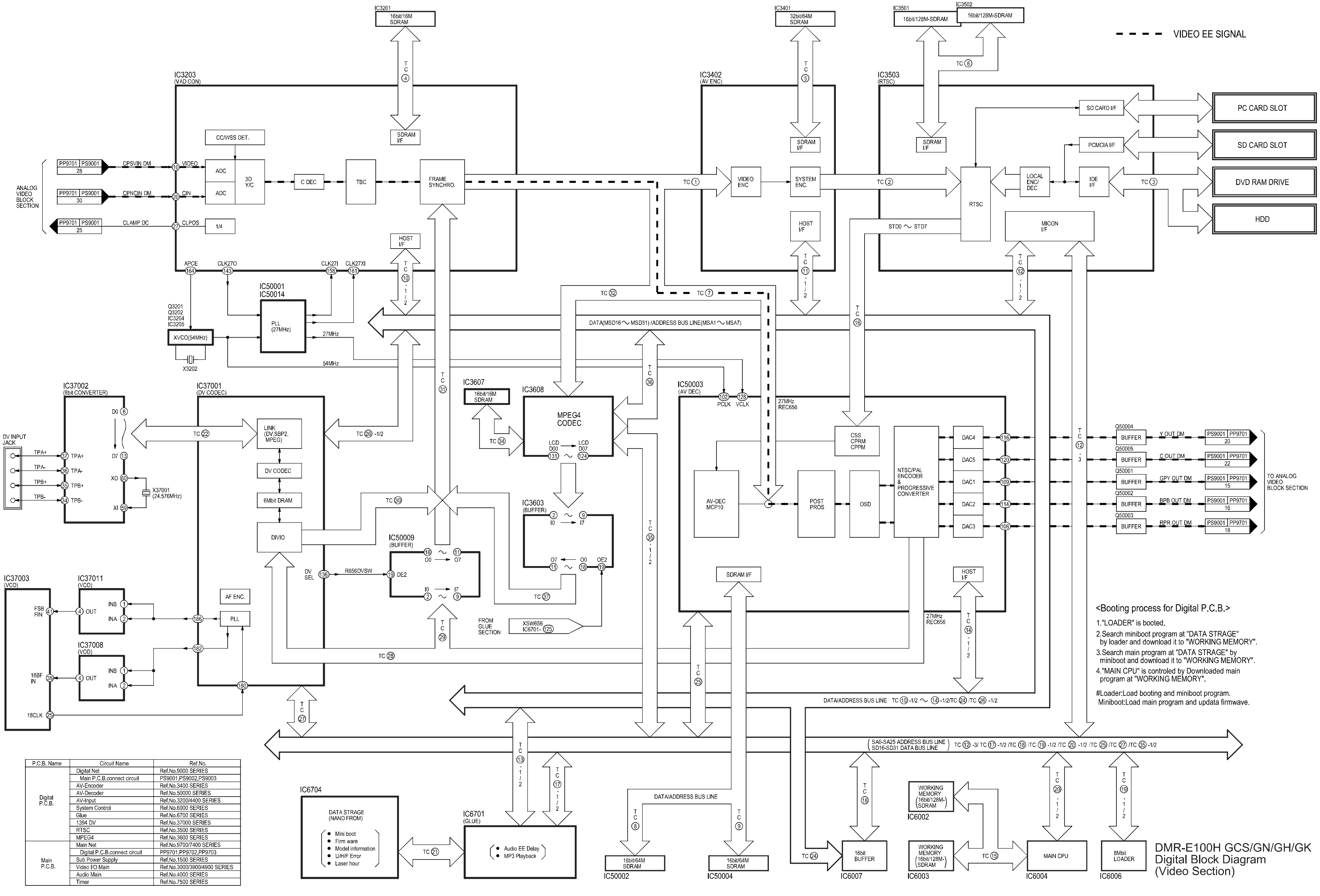

M
D3.3V
R3531 47K
LB3503 J0JHC0000045
CKA20
R3534 3300
XIRQ5
R3535 1K
TO P6801 SD & PC CARD P.C.B. P3503
TO P9802 DRIVE ATAPI P.C.B. FP3501
TO P9802 ATAPI P.C.B. FP3502
RX3530 22X4
RX3531 22X4
RX3532 22X4
RX3533 22X4
RX3535 10X4
RX3536 10X4
RX3537 10X4
RX3538 10X4
RX3525 10X4
RX3534 10X4
RX3526 33X4
RX3527 33X4
RX3528 33X4
RX3529 33X4
RX3516 33X4
R3539 82
R3548 100
R3536 0
R3540 82
R3541 5600
C3502 0.01
DRQ R
XIOW R
XIOR R
DIORDY R
XDACK R
INTRQ R
DA1 R
DA0 R
DA2 R
XDCS1
XDCS3
R3512 33
R3511 33
R3510 33
R3509 33
R3544 47K
CKA14
CKA16
CKA1
CKA43
CKA17
CKA19
LB3501 J0JHC0000032
LB3502 J0JHC0000045
X SW 5.9V
D5V
R3533 10K
R3538 10K
QR3501 UNR521300L (RESET)
QR3503 UNR521300L (RESET)
R3547 1K
(J9)
(J10)
(J8)
XDAVINT

DN:Digital Net Section(Page: **F**)
AI:AV Input Section(Page: **G**)
EN:AV Encoder Section(Page: **H**)
AD:AV Decoder Section(Page: **I**)
S:System Control Section(Page: **J**)
G:Glue Section(Page: **K**)
DV:1394 DV Section(Page: **L**)
DS:RTSC Section(Page: **M**)
MP:MPEG4 Section(Page: **N**)

DMR-E100H GCS/GN/GH/GK
Real Time Stream(RTSC) Section(Digital P.C.B.(8/9)) Schematic Diagram(DS)

DMR-E100H GCS/GN/GH/GK
Real Time Stream(RTSC) Section(Digital P.C.B.(8/9)) Schematic Diagram(DS)

25 26 27 28 29 30 31 32 33 34 35 36


VIDEO EE SIGNAL
IC3201
16bit/16M SDRAM
IC3203 (VAD CON)
SDRAM I/F
CC/WSS DET.
ADC
3D Y/C
C DEC
TBC
FRAME SYNCHRO.
HOST I/F
1/4
VIDEO
CIN
CLPOS
ANALOG VIDEO BLOCK SECTION
PP9701 PS9001 28
PP9701 PS9001 30
PP9701 PS9001 25
CPSVIN DM
CPNCIN DM
CLAMP DC
APCE
CLK27O
CLK27I
CLK27XI
Q3201 Q3202 IC3204 IC3205
XVCO(54MHz)
X3202
IC50001 IC50014
PLL (27MHz)
27MHz
54MHz
IC3401
32bit/64M SDRAM
IC3402 (AV ENC)
VIDEO ENC
SYSTEM ENC.
SDRAM I/F
HOST I/F
IC3501
16bit/128M-SDRAM
IC3502
16bit/128M-SDRAM
IC3503 (RTSC)
RTSC
SD CARD I/F
PCMCIA I/F
LOCAL ENC/ DEC
IDE I/F
MICON I/F
STD0 ～ STD7
PC CARD SLOT
SD CARD SLOT
DVD RAM DRIVE
HDD
DATA(MSD16～MSD31) /ADDRESS BUS LINE(MSA1～MSA7)
IC37002 (8bit CONVERTER)
DV INPUT JACK
TPA+
TPA-
TPB+
TPB-
D0
D7
XO
XI
X37001 (24.576MHz)
IC37001 (DV CODEC)
LINK (DV,SBP2, MPEG)
DV CODEC
6Mbit DRAM
DIVIO
AF ENC.
PLL
DV SEL
R656DVSW
IC3607
16bit/16M SDRAM
IC3608
MPEG4 CODEC
LCD D00
LCD D07
IC3603 (BUFFER)
IC50009 (BUFFER)
O0
O7
I0
I7
DE2
OE2
FROM GLUE SECTION
XSW656 IC6701-
IC50003 (AV DEC)
PCLK
VCLK
27MHz REC656
CSS CPRM CPPM
AV-DEC MCP10
POST PROS
OSD
NTSC/PAL ENCODER & PROGRESSIVE CONVERTER
DAC4
DAC5
DAC1
DAC2
DAC3
SDRAM I/F
HOST I/F
Q50004
Q50005
Q50001
Q50002
Q50003
BUFFER
Y OUT DM
C OUT DM
GPY OUT DM
BPB OUT DM
RPR OUT DM
PS9001 PP9701 20
PS9001 PP9701 22
PS9001 PP9701 15
PS9001 PP9701 16
PS9001 PP9701 18
TO ANALOG VIDEO BLOCK SECTION
IC37003 (VCO)
FSB FIN
18BF IN
18CLK
IC37011 (VCO)
IC37008 (VCO)
INB
INA
OUT
DATA/ADDRESS BUS LINE TC ⑩ -1/2 ～ ⑭ -1/2/TC ㉔ /TC ㉖ -1/2
SA0-SA25 ADDRESS BUS LINE SD16-SD31 DATA BUS LINE
TC ⑫ -3/ TC ⑰ -1/2 /TC ⑱ /TC ⑲ -1/2 /TC ⑳ -1/2 /TC ㉕ /TC ㉗ /TC ㉟ -1/2
DATA/ADDRESS BUS LINE
IC6704
DATA STRAGE (NAND FROM)
Mini boot
Firm ware
Model information
U/H/F Error
Laser hour
IC6701 (GLUE)
Audio EE Delay
MP3 Playback
16bit/64M SDRAM
IC50002
IC50004
16bit BUFFER
IC6007
WORKING MEMORY (16bit/128M-) SDRAM
IC6002
IC6003
MAIN CPU
IC6004
8Mbit LOADER
IC6006
TC ①
TC ②
TC ③
TC ④
TC ⑤
TC ⑥
TC ⑦
TC ⑧
TC ⑨
TC ⑩ -1/2
TC ⑪ -1/2
TC ⑫ -1/2
TC ⑬ -1/2
TC ⑭ -1/2
TC ⑮
TC ⑯
TC ⑰ -1/2
TC ⑱
TC ⑲ -1/2
TC ⑳ -1/2
TC ㉑
TC ㉒
TC ㉔
TC ㉕
TC ㉖ -1/2
TC ㉗
TC ㉘
TC ㉙
TC ㉚
TC ㉛
TC ㉜
TC ㉞
TC ㉟ -1/2
TC ㊱
TC ㊲

<Booting process for Digital P.C.B.>

1."LOADER" is booted.

2.Search miniboot program at "DATA STRAGE" by loader and download it to "WORKING MEMORY".

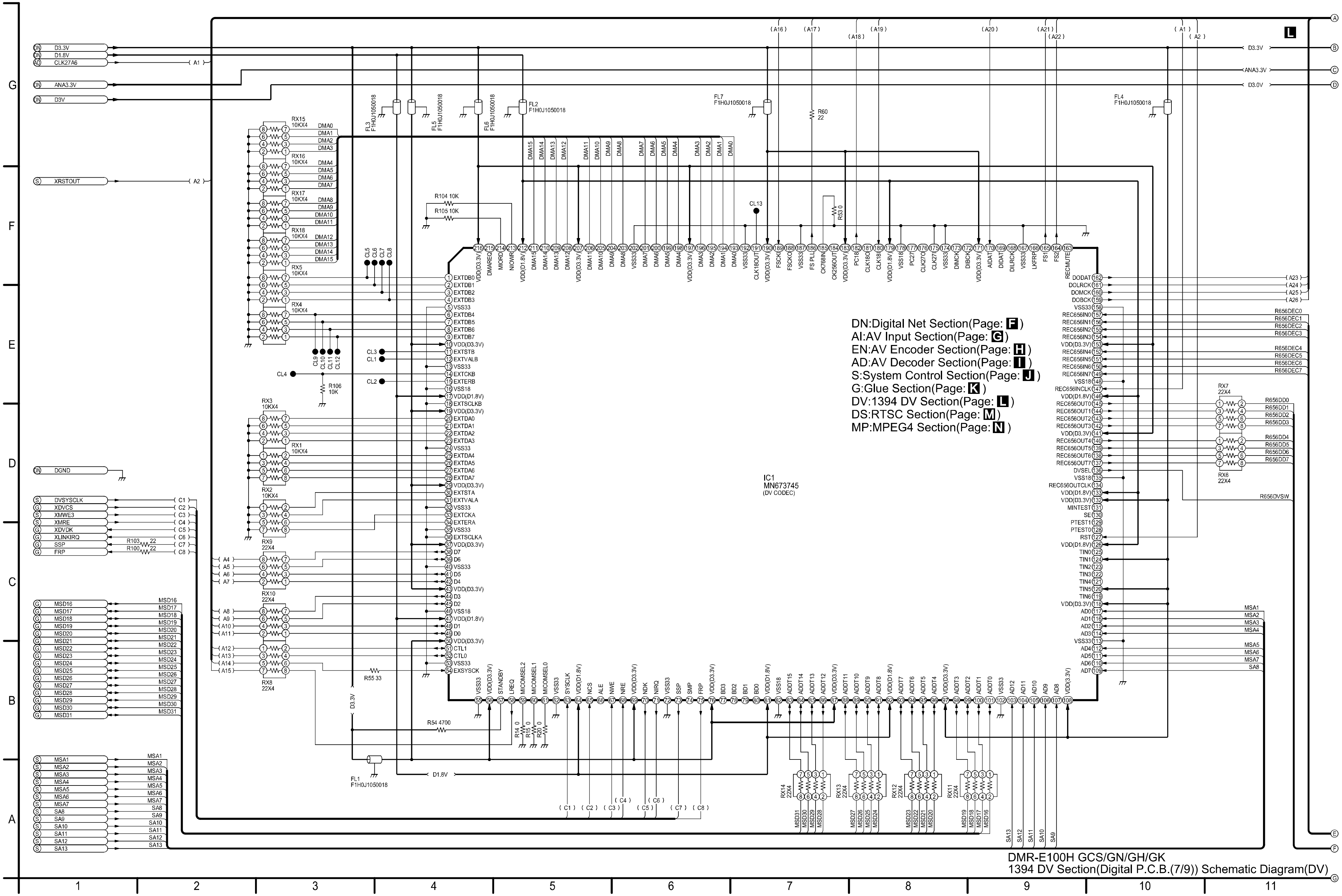
3.Search main program at "DATA STRAGE" by miniboot and download it to "WORKING MEMORY".

4."MAIN CPU" is controled by Downloaded main program at "WORKING MEMORY".

#Loader:Load booting and miniboot program.
Miniboot:Load main program and updata firmwave.

P.C.B. Name	Circuit Name	Ref.No.
Digital P.C.B.	Digital Net	Ref.No.9000 SERIES
	Main P.C.B.connect circuit	PS9001,PS9002,PS9003
	AV-Encoder	Ref.No.3400 SERIES
	AV-Decoder	Ref.No.50000 SERIES
	AV-Input	Ref.No.3200/4400 SERIES
	System Control	Ref.No.6000 SERIES
	Glue	Ref.No.6700 SERIES
	1394 DV	Ref.No.37000 SERIES
	RTSC	Ref.No.3500 SERIES
	MPEG4	Ref.No.3600 SERIES
Main P.C.B.	Main Net	Ref.No.9700/7400 SERIES
	Digital P.C.B.connect circuit	PP9701,PP9702,PP9703
	Sub Power Supply	Ref.No.1500 SERIES
	Video I/O Main	Ref.No.3000/3900/4900 SERIES
	Audio Main	Ref.No.4000 SERIES
	Timer	Ref.No.7500 SERIES

DMR-E100H GCS/GN/GH/GK
Digital Block Diagram
(Video Section)


L
IC1
MN673745
(DV CODEC)
FL1 F1H0J1050018
FL2 F1H0J1050018
FL3 F1H0J1050018
FL4 F1H0J1050018
FL5 F1H0J1050018
FL6 F1H0J1050018
FL7 F1H0J1050018
R104 10K
R105 10K
R106 10K
R60 22
R53 0
R54 4700
R55 33
R103 22
R100 22
R14 0
R15 0
R20 0
RX15 10KX4
RX16 10KX4
RX17 10KX4
RX18 10KX4
RX5 10KX4
RX4 10KX4
RX3 10KX4
RX1 10KX4
RX2 10KX4
RX9 22X4
RX10 22X4
RX8 22X4
RX7 22X4
RX6 22X4
RX14 22X4
RX13 22X4
RX12 22X4
RX11 22X4
CL1
CL2
CL3
CL4
CL5
CL6
CL7
CL8
CL9
CL10
CL11
CL12
CL13
D3.3V
D1.8V
CLK27A6
ANA3.3V
D3V
D3.0V
XRSTOUT
DGND
DVSYSCLK
XDVCS
XMWE3
XMRE
XDVDK
XLINKIRQ
SSP
FRP
1
2
3
4
5
6
7
8
9
10
11
A
B
C
D
E
F
G

DN:Digital Net Section(Page: **F**)
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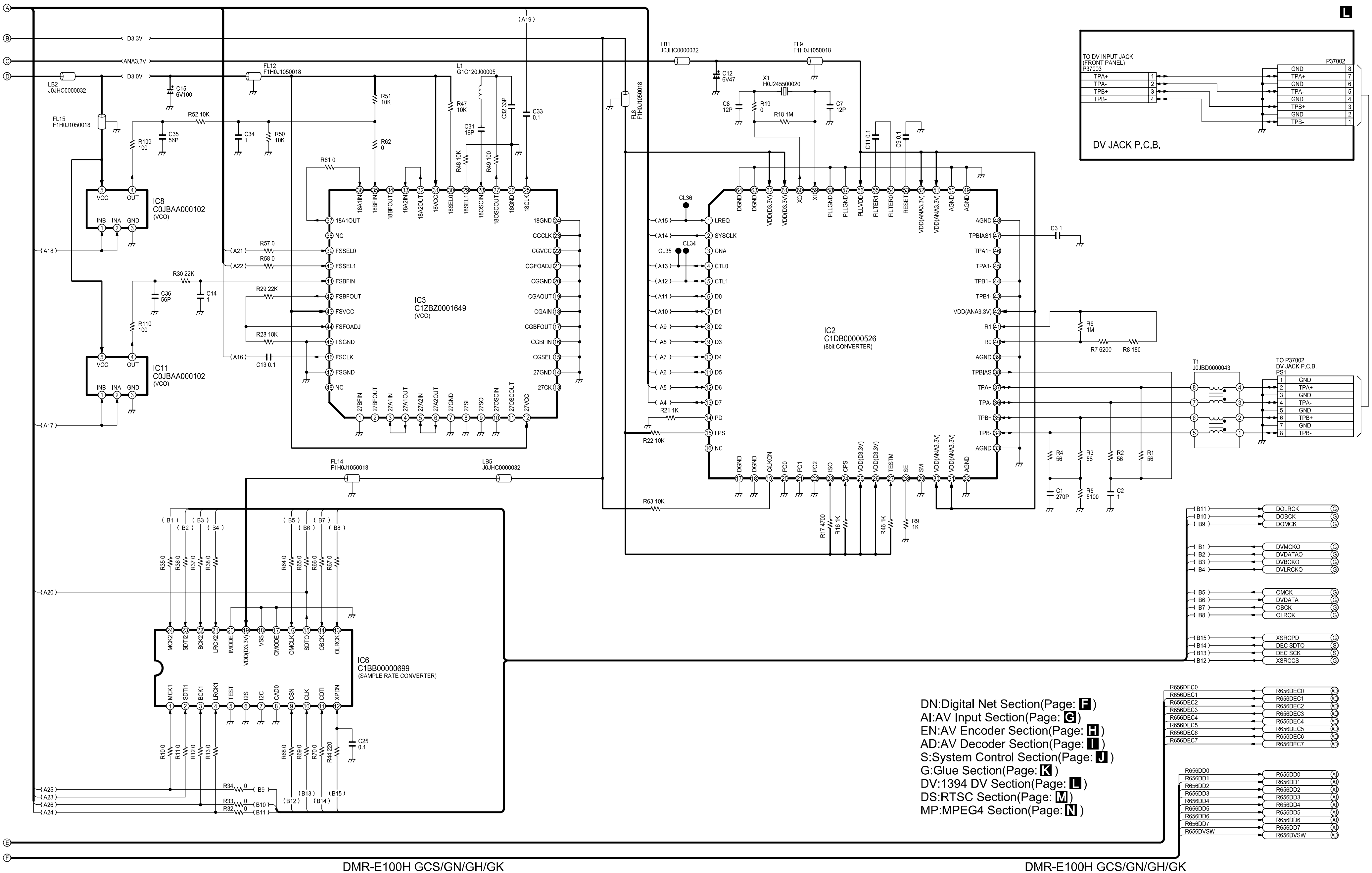
DS:RTSC Section(Page: **M**)
MP:MPEG4 Section(Page: **N**)

DMR-E100H GCS/GN/GH/GK
1394 DV Section(Digital P.C.B.(7/9)) Schematic Diagram(DV)

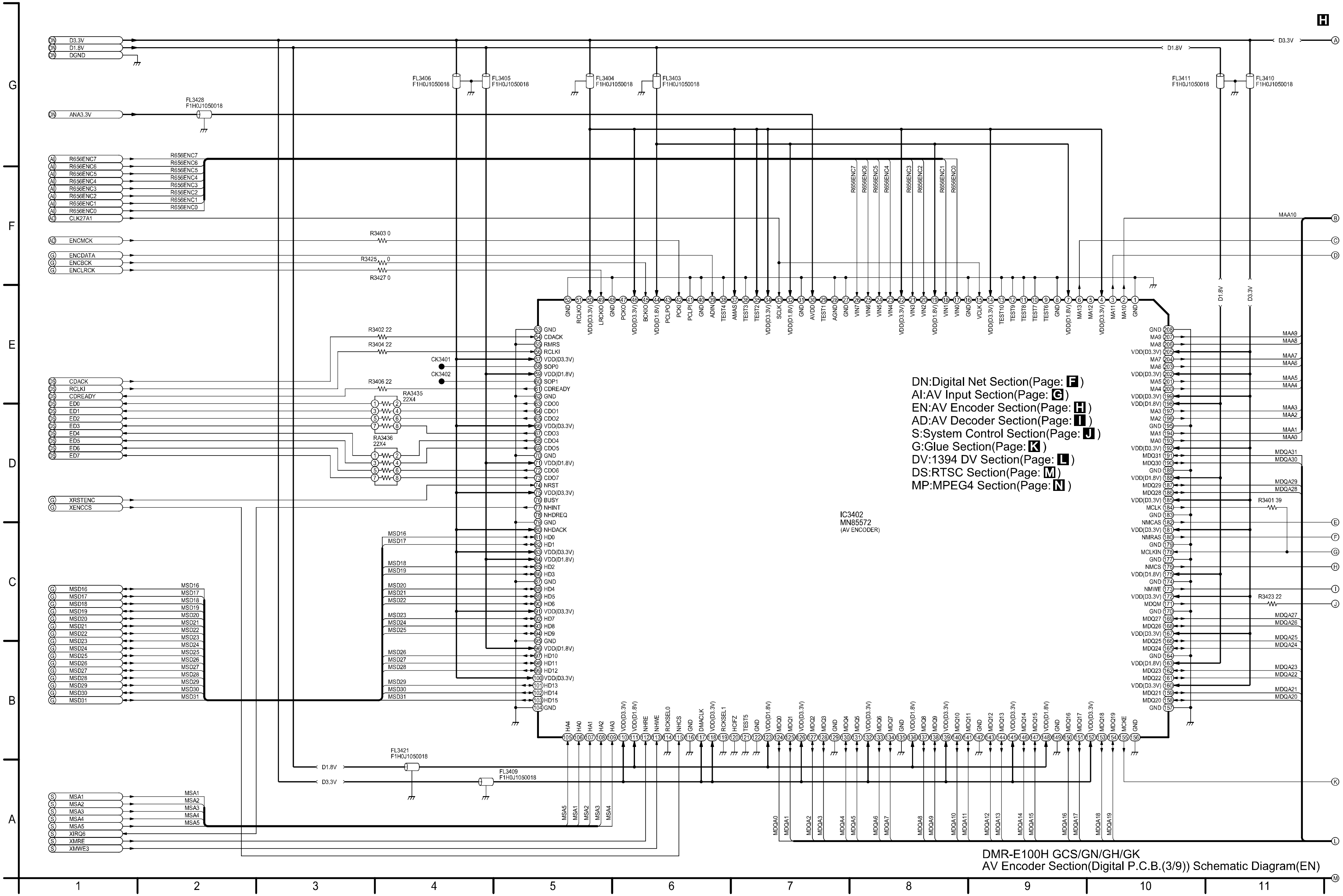

L
A
B
C
D
E
F
G
D3.3V
ANA3.3V
D3.0V
LB2
J0JHC0000032
C15
6V100
FL15
F1H0J1050018
FL12
F1H0J1050018
R52 10K
C35
56P
R109
100
C34
1
R50
10K
R51
10K
R62
0
R47
10K
L1
G1C120J00005
C31
18P
C32 33P
C33
0.1
R48 10K
R49 100
R61 0
IC8
C0JBAA000102
(VCO)
VCC
OUT
INB
INA
GND
IC11
C0JBAA000102
(VCO)
R110
100
R30 22K
C36
56P
C14
1
R57 0
R58 0
R29 22K
R28 18K
C13 0.1
IC3
C1ZBZ0001649
(VCO)
18A1OUT
NC
FSSEL0
FSSEL1
FSBFIN
FSBFOUT
FSVCC
FSFOADJ
FSGND
FSCLK
FSGND
NC
18A1IN
18BFIN
18BFOUT
18A2IN
18A2OUT
18VCC
18SEL0
18SEL1
18OSCIN
18OSCOUT
18GND
18CLK
18GND
CGCLK
CGVCC
CGFOADJ
CGGND
CGAOUT
CGAIN
CGBFOUT
CGBFIN
CGSEL
27GND
27CK
27BFIN
27BFOUT
27A1IN
27A1OUT
27A2IN
27A2OUT
27GND
27SI
27SO
27OSCIN
27OSCOUT
27VCC
A15
A14
A13
A12
A11
A10
A9
A8
A7
A6
A5
A4
A16
A17
A18
A19
A20
A21
A22
A23
A24
A25
A26
FL8
F1H0J1050018
LB1
J0JHC0000032
C12
6V47
FL9
F1H0J1050018
X1
H0J245500020
C8
12P
R19
0
R18 1M
C7
12P
C11 0.1
C9 0.1
CL36
CL35
CL34
R21 1K
R22 10K
R63 10K
IC2
C1DB00000526
(8bit CONVERTER)
LREQ
SYSCLK
CNA
CTL0
CTL1
D0
D1
D2
D3
D4
D5
D6
D7
PD
LPS
NC
DGND
DGND
VDD(D3.3V)
VDD(D3.3V)
XO
XI
PLLGND
PLLGND
PLLVDD
FILTER1
FILTER0
RESET
VDD(ANA3.3V)
VDD(ANA3.3V)
AGND
AGND
TPBIAS1
TPA1+
TPA1-
TPB1+
TPB1-
VDD(ANA3.3V)
R1
R0
AGND
TPBIAS
TPA+
TPA-
TPB+
TPB-
AGND
C/LKON
PC0
PC1
PC2
ISO
CPS
VDD(D3.3V)
VDD(D3.3V)
TESTM
SE
SM
VDD(ANA3.3V)
VDD(ANA3.3V)
AGND
R17 4700
R16 1K
R46 1K
R9
1K
C3 1
R6
1M
R7 6200
R8 180
T1
J0JBD0000043
R4
56
R3
56
R2
56
R1
56
C1
270P
R5
5100
C2
1
TO DV INPUT JACK
(FRONT PANEL)
P37003
P37002
TPA+
TPA-
TPB+
TPB-
GND
DV JACK P.C.B.
TO P37002
DV JACK P.C.B.
PS1
FL14
F1H0J1050018
LB5
J0JHC0000032
B1
B2
B3
B4
B5
B6
B7
B8
B9
B10
B11
B12
B13
B14
B15
R35 0
R36 0
R37 0
R38 0
R64 0
R65 0
R66 0
R67 0
IC6
C1BB00000699
(SAMPLE RATE CONVERTER)
MCK2
SDTI2
BCK2
LRCK2
IMODE
VDD(D3.3V)
VSS
OMODE
OMCLK
SDTO
OBCK
OLRCK
MCK1
SDTI1
BCK1
LRCK1
TEST
I2S
I2C
CAD0
CSN
CLK
CDTI
XPDN
C25
0.1
R10 0
R11 0
R12 0
R13 0
R68 0
R69 0
R70 0
R44 220
R34 0
R33 0
R32 0
DOLRCK
DOBCK
DOMCK
DVMCKO
DVDATAO
DVBCKO
DVLRCKO
OMCK
DVDATA
OBCK
OLRCK
XSRCPD
DEC SDTO
DEC SCK
XSRCCS
R656DEC0
R656DEC1
R656DEC2
R656DEC3
R656DEC4
R656DEC5
R656DEC6
R656DEC7
R656DD0
R656DD1
R656DD2
R656DD3
R656DD4
R656DD5
R656DD6
R656DD7
R656DVSW
AI
S
12
13
14
15
16
17
18
19
20
21
22

DN:Digital Net Section(Page: F)
AI:AV Input Section(Page: G)
EN:AV Encoder Section(Page: H)
AD:AV Decoder Section(Page: I)
S:System Control Section(Page: J)
G:Glue Section(Page: K)
DV:1394 DV Section(Page: L)
DS:RTSC Section(Page: M)
MP:MPEG4 Section(Page: N)

DMR-E100H GCS/GN/GH/GK
1394 DV Section(Digital P.C.B.(7/9)) Schematic Diagram(DV)

REF NO.37000 SERIES

DMR-E100H GCS/GN/GH/GK
1394 DV Section(Digital P.C.B.(7/9)) Schematic Diagram(DV)


H
D3.3V
D1.8V
DGND
ANA3.3V
FL3428
F1H0J1050018
FL3406
FL3405
FL3404
FL3403
FL3411
FL3410
FL3421
FL3409
R656ENC7
R656ENC6
R656ENC5
R656ENC4
R656ENC3
R656ENC2
R656ENC1
R656ENC0
CLK27A1
ENCMCK
ENCDATA
ENCBCK
ENCLRCK
R3403 0
R3425 0
R3427 0
R3402 22
R3404 22
R3406 22
R3401 39
R3423 22
RA3435
RA3436
22X4
CK3401
CK3402
CDACK
RCLKI
CDREADY
ED0
ED1
ED2
ED3
ED4
ED5
ED6
ED7
XRSTENC
XENCCS
MSD16
MSD17
MSD18
MSD19
MSD20
MSD21
MSD22
MSD23
MSD24
MSD25
MSD26
MSD27
MSD28
MSD29
MSD30
MSD31
MSA1
MSA2
MSA3
MSA4
MSA5
XIRQ6
XMRE
XMWE3
IC3402
MN85572
(AV ENCODER)
MAA0
MAA1
MAA2
MAA3
MAA4
MAA5
MAA6
MAA7
MAA8
MAA9
MAA10
MDQA0
MDQA1
MDQA2
MDQA3
MDQA4
MDQA5
MDQA6
MDQA7
MDQA8
MDQA9
MDQA10
MDQA11
MDQA12
MDQA13
MDQA14
MDQA15
MDQA16
MDQA17
MDQA18
MDQA19
MDQA20
MDQA21
MDQA22
MDQA23
MDQA24
MDQA25
MDQA26
MDQA27
MDQA28
MDQA29
MDQA30
MDQA31
A
B
C
D
E
F
G
H
I
J
K
L
M
1
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6
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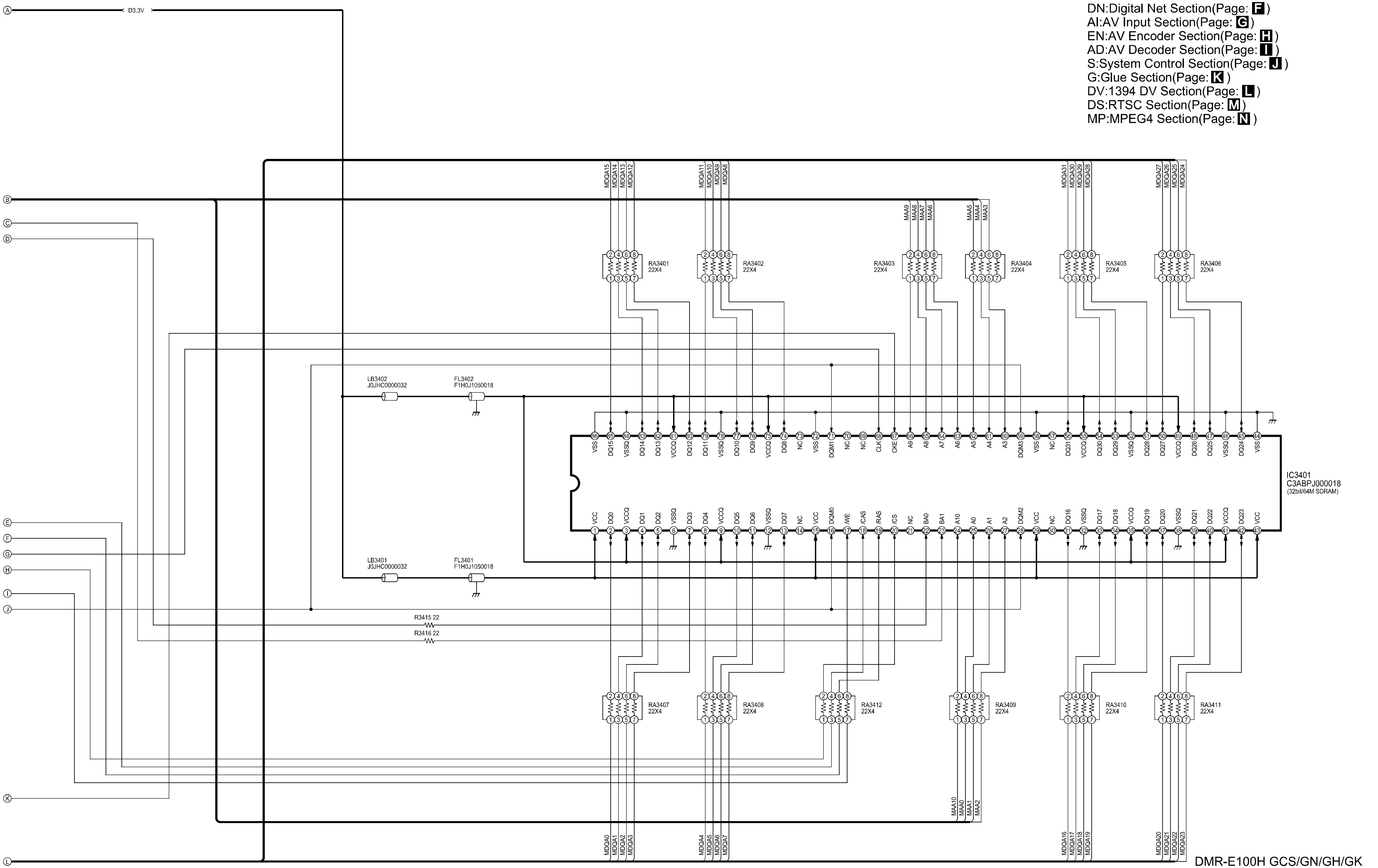
8
9
10
11

DN:Digital Net Section(Page: F)
AI:AV Input Section(Page: G)
EN:AV Encoder Section(Page: H)
AD:AV Decoder Section(Page: I)
S:System Control Section(Page: J)
G:Glue Section(Page: K)
DV:1394 DV Section(Page: L)
DS:RTSC Section(Page: M)
MP:MPEG4 Section(Page: N)

DMR-E100H GCS/GN/GH/GK
AV Encoder Section(Digital P.C.B.(3/9)) Schematic Diagram(EN)

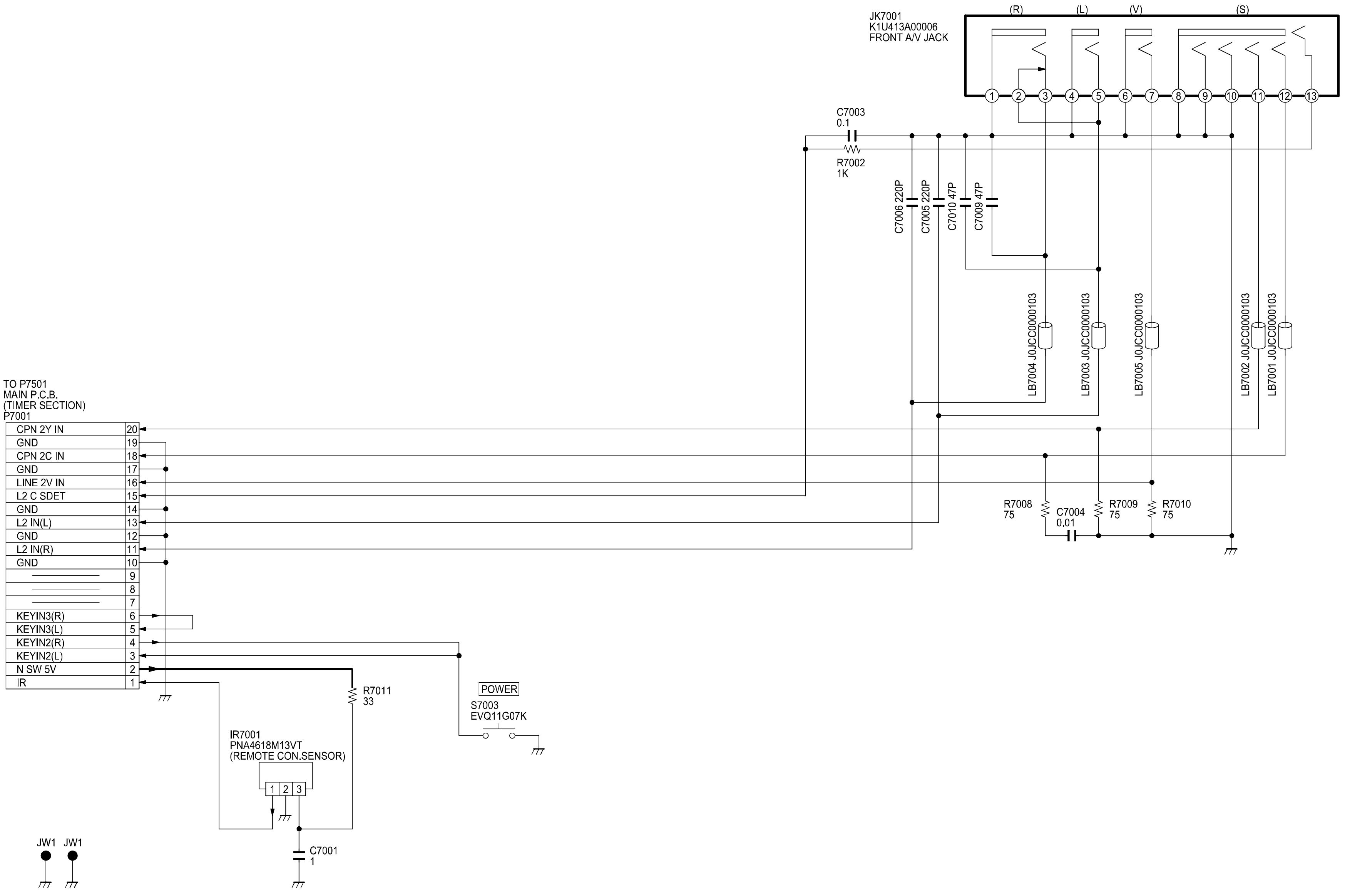
DN:Digital Net Section(Page: F)
AI:AV Input Section(Page: G)
EN:AV Encoder Section(Page: H)
AD:AV Decoder Section(Page: I)
S:System Control Section(Page: J)
G:Glue Section(Page: K)
DV:1394 DV Section(Page: L)
DS:RTSC Section(Page: M)
MP:MPEG4 Section(Page: N)


A
B
C
D
E
F
G
H
I
J
K
L
M
D3.3V
MDQA15 MDQA14 MDQA13 MDQA12
MDQA11 MDQA10 MDQA9 MDQA8
MAA9 MAA8 MAA7 MAA6
MAA5 MAA4 MAA3
MDQA31 MDQA30 MDQA29 MDQA28
MDQA27 MDQA26 MDQA25 MDQA24
RA3401 22X4
RA3402 22X4
RA3403 22X4
RA3404 22X4
RA3405 22X4
RA3406 22X4
LB3402 J0JHC0000032
FL3402 F1H0J1050018
LB3401 J0JHC0000032
FL3401 F1H0J1050018
IC3401
C3ABPJ000018
(32bit/64M SDRAM)
86 VSS
85 DQ15
84 VSSQ
83 DQ14
82 DQ13
81 VCCQ
80 DQ12
79 DQ11
78 VSSQ
77 DQ10
76 DQ9
75 VCCQ
74 DQ8
73 NC
72 VSS
71 DQM1
70 NC
69 NC
68 CLK
67 CKE
66 A9
65 A8
64 A7
63 A6
62 A5
61 A4
60 A3
59 DQM3
58 VSS
57 NC
56 DQ31
55 VCCQ
54 DQ30
53 DQ29
52 VSSQ
51 DQ28
50 DQ27
49 VCCQ
48 DQ26
47 DQ25
46 VSSQ
45 DQ24
44 VSS
1 VCC
2 DQ0
3 VCCQ
4 DQ1
5 DQ2
6 VSSQ
7 DQ3
8 DQ4
9 VCCQ
10 DQ5
11 DQ6
12 VSSQ
13 DQ7
14 NC
15 VCC
16 DQM0
17 /WE
18 /CAS
19 /RAS
20 /CS
21 NC
22 BA0
23 BA1
24 A10
25 A0
26 A1
27 A2
28 DQM2
29 VCC
30 NC
31 DQ16
32 VSSQ
33 DQ17
34 DQ18
35 VCCQ
36 DQ19
37 DQ20
38 VSSQ
39 DQ21
40 DQ22
41 VCCQ
42 DQ23
43 VCC
R3415 22
R3416 22
RA3407 22X4
RA3408 22X4
RA3412 22X4
RA3409 22X4
RA3410 22X4
RA3411 22X4
MAA10 MAA0 MAA1 MAA2
MDQA0 MDQA1 MDQA2 MDQA3
MDQA4 MDQA5 MDQA6 MDQA7
MDQA16 MDQA17 MDQA18 MDQA19
MDQA20 MDQA21 MDQA22 MDQA23
12
13
14
15
16
17
18
19
20
21
22

DMR-E100H GCS/GN/GH/GK
AV Encoder Section(Digital P.C.B.(3/9)) Schematic Diagram(EN)

NOTE:DO NOT USE THE PART NUMBER SHOWN ON THIS DRAWING FOR ORDERRING.THE CORRECT PART NUMBER IS SHOWN IN THE PARTS LIST,AND MAY BE SLIGHTLY DIFFERNT OR AMENDED SINCE THIS DRAWING WAS PREPARED.

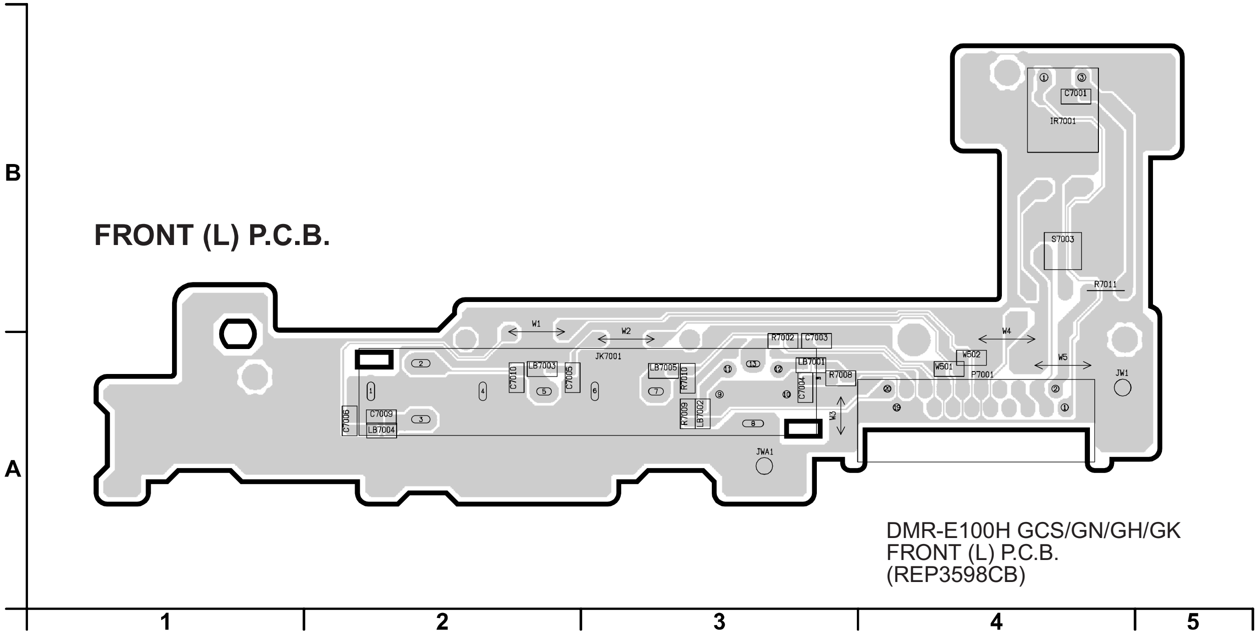
DMR-E100H GCS/GN/GH/GK
AV Encoder Section(Digital P.C.B.(3/9))
Schematic Diagram(EN)


JK7001
K1U413A00006
FRONT A/V JACK
(R)
(L)
(V)
(S)
1
2
3
4
5
6
7
8
9
10
11
12
13
C7003
0.1
R7002
1K
C7006 220P
C7005 220P
C7010 47P
C7009 47P
LB7004 J0JCC0000103
LB7003 J0JCC0000103
LB7005 J0JCC0000103
LB7002 J0JCC0000103
LB7001 J0JCC0000103
TO P7501
MAIN P.C.B.
(TIMER SECTION)
P7001
CPN 2Y IN 20
GND 19
CPN 2C IN 18
GND 17
LINE 2V IN 16
L2 C SDET 15
GND 14
L2 IN(L) 13
GND 12
L2 IN(R) 11
GND 10
9
8
7
KEYIN3(R) 6
KEYIN3(L) 5
KEYIN2(R) 4
KEYIN2(L) 3
N SW 5V 2
IR 1
R7008
75
C7004
0.01
R7009
75
R7010
75
R7011
33
POWER
S7003
EVQ11G07K
IR7001
PNA4618M13VT
(REMOTE CON.SENSOR)
1 2 3
C7001
1
JW1
JW1
E
D
C
B
A
1
2
3
4
5
6
7

NOTE:DO NOT USE THE PART NUMBER SHOWN ON THIS DRAWING FOR ORDERING.
THE CORRECT PART NUMBER IS SHOWN IN THE PARTS LIST,AND MAY BE
SLIGHTLY DIFFERNT OR AMENDED SINCE THIS DRAWING WAS PREPARED.

DMR-E100H GCS/GN/GH/GK
Front(L) Schematic Diagram

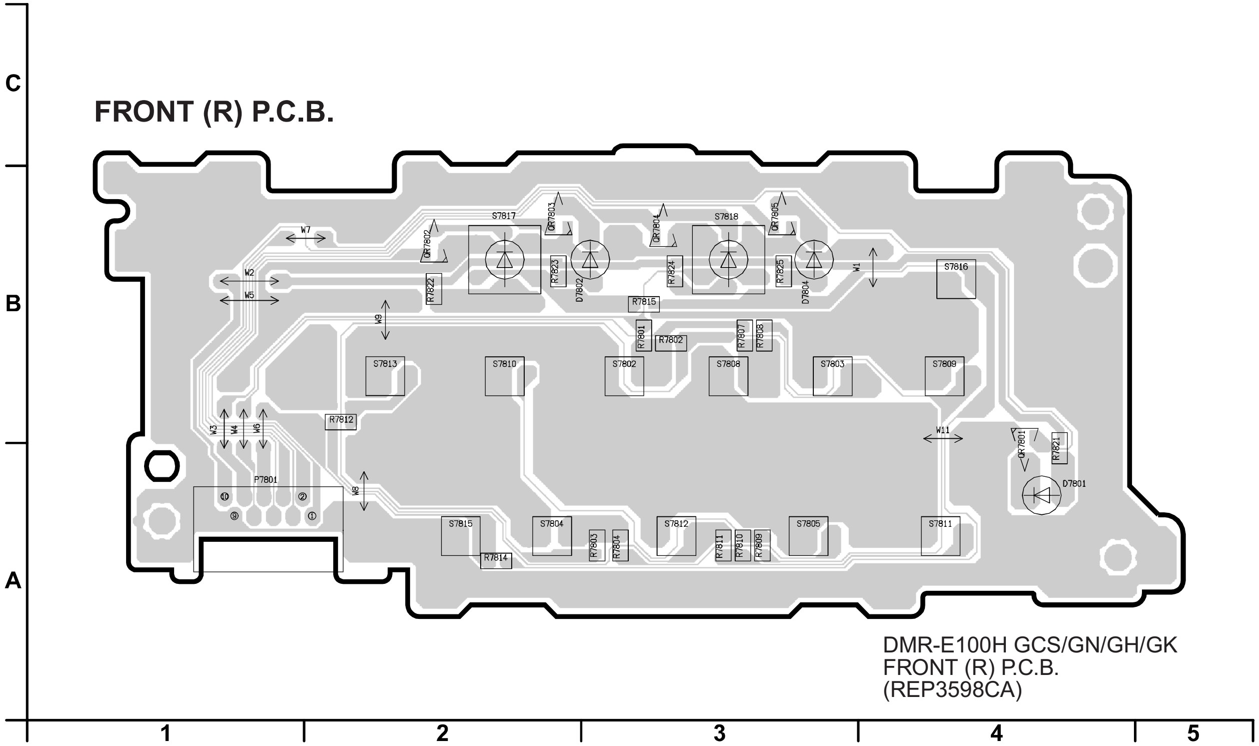
FRONT (L) P.C.B.



B
A
1
2
3
4
5
IR7001
C7001
①
③
S7003
R7011
W1
W2
W3
W4
W5
JK7001
R7002
C7003
LB7001
R7008
W501
W502
P7001
JW1
JWA1
C7006
C7009
LB7004
C7010
LB7003
C7005
LB7005
R7010
R7009
LB7002
C7004
1
2
3
4
5
6
7
8
⑨
⑩
⑪
⑫
⑬
⑲
⑳
②
①

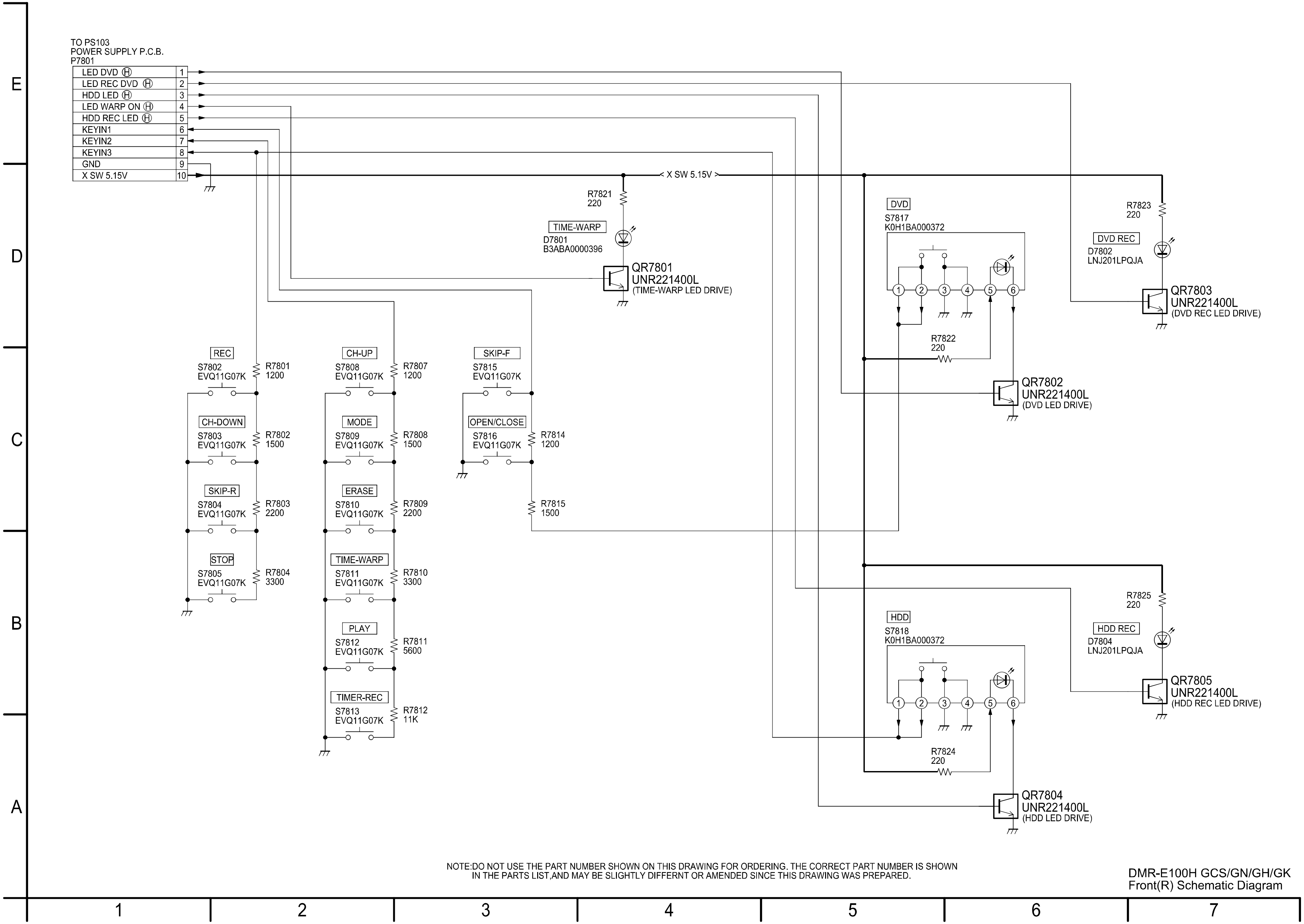
DMR-E100H GCS/GN/GH/GK
FRONT (L) P.C.B.
(REP3598CB)

FRONT (R) P.C.B.



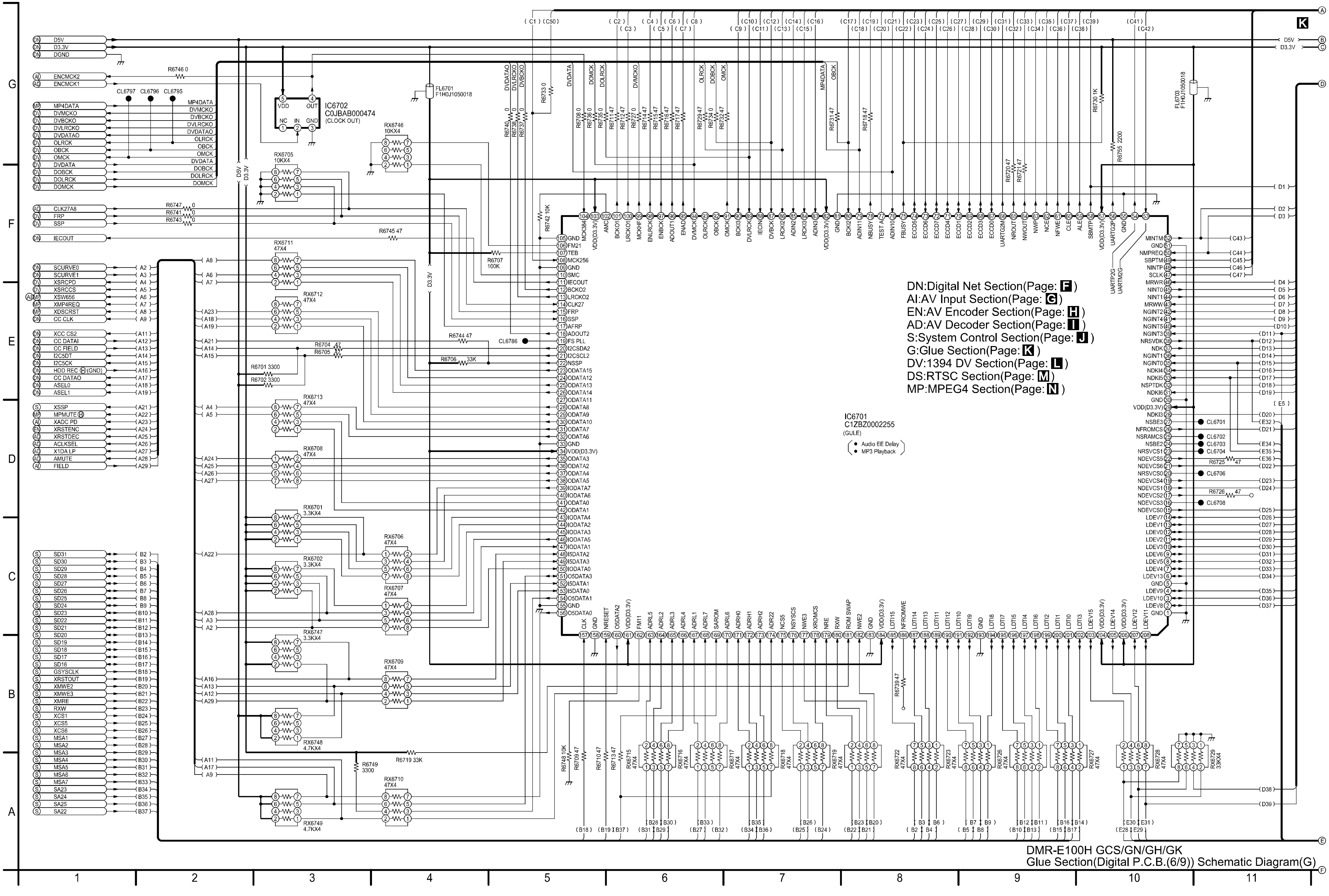
C
B
A
1
2
3
4
5
W7
W2
W5
W9
W3
W4
W6
W8
W1
W11
S7817
S7818
QR7802
QR7803
QR7804
QR7805
QR7801
R7822
R7823
R7824
R7825
D7802
D7804
D7801
R7815
R7801
R7802
R7807
R7808
S7816
S7813
S7810
S7802
S7808
S7803
S7809
R7812
R7821
P7801
⑩
⑨
②
①
S7815
S7804
S7812
S7805
S7811
R7814
R7803
R7804
R7811
R7810
R7809

DMR-E100H GCS/GN/GH/GK
FRONT (R) P.C.B.
(REP3598CA)

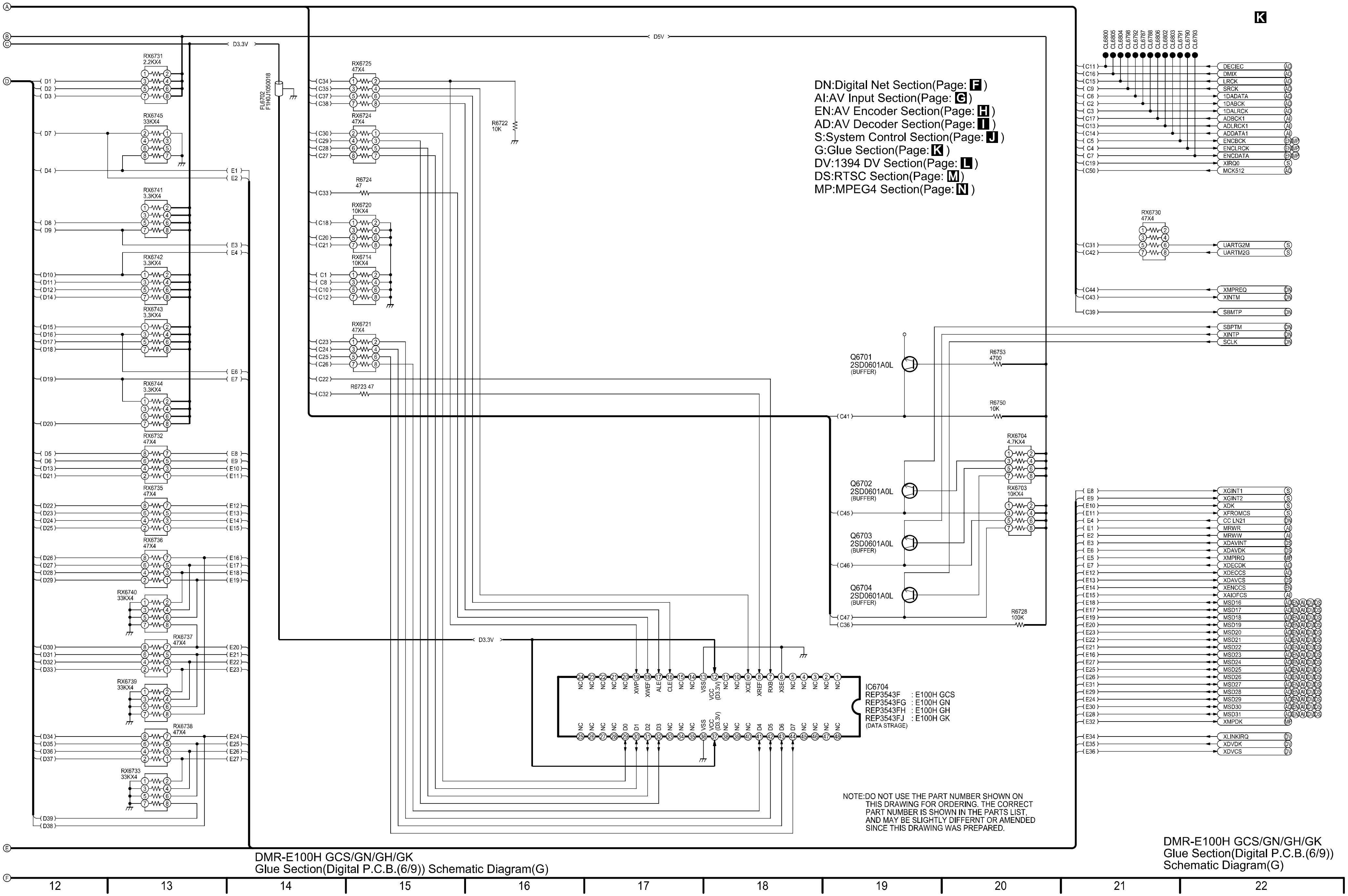

TO PS103
POWER SUPPLY P.C.B.
P7801
LED DVD Ⓗ 1
LED REC DVD Ⓗ 2
HDD LED Ⓗ 3
LED WARP ON Ⓗ 4
HDD REC LED Ⓗ 5
KEYIN1 6
KEYIN2 7
KEYIN3 8
GND 9
X SW 5.15V 10
< X SW 5.15V >
R7821
220
TIME-WARP
D7801
B3ABA0000396
QR7801
UNR221400L
(TIME-WARP LED DRIVE)
DVD
S7817
K0H1BA000372
R7822
220
QR7802
UNR221400L
(DVD LED DRIVE)
R7823
220
DVD REC
D7802
LNJ201LPQJA
QR7803
UNR221400L
(DVD REC LED DRIVE)
REC
S7802
EVQ11G07K
R7801
1200
CH-DOWN
S7803
EVQ11G07K
R7802
1500
SKIP-R
S7804
EVQ11G07K
R7803
2200
STOP
S7805
EVQ11G07K
R7804
3300
CH-UP
S7808
EVQ11G07K
R7807
1200
MODE
S7809
EVQ11G07K
R7808
1500
ERASE
S7810
EVQ11G07K
R7809
2200
TIME-WARP
S7811
EVQ11G07K
R7810
3300
PLAY
S7812
EVQ11G07K
R7811
5600
TIMER-REC
S7813
EVQ11G07K
R7812
11K
SKIP-F
S7815
EVQ11G07K
OPEN/CLOSE
S7816
EVQ11G07K
R7814
1200
R7815
1500
HDD
S7818
K0H1BA000372
R7824
220
QR7804
UNR221400L
(HDD LED DRIVE)
R7825
220
HDD REC
D7804
LNJ201LPQJA
QR7805
UNR221400L
(HDD REC LED DRIVE)
E
D
C
B
A
1
2
3
4
5
6
7

NOTE:DO NOT USE THE PART NUMBER SHOWN ON THIS DRAWING FOR ORDERING. THE CORRECT PART NUMBER IS SHOWN IN THE PARTS LIST,AND MAY BE SLIGHTLY DIFFERNT OR AMENDED SINCE THIS DRAWING WAS PREPARED.

DMR-E100H GCS/GN/GH/GK
Front(R) Schematic Diagram


K
DN:Digital Net Section(Page: F)
AI:AV Input Section(Page: G)
EN:AV Encoder Section(Page: H)
AD:AV Decoder Section(Page: I)
S:System Control Section(Page: J)
G:Glue Section(Page: K)
DV:1394 DV Section(Page: L)
DS:RTSC Section(Page: M)
MP:MPEG4 Section(Page: N)
IC6701
C1ZBZ0002255
(GULE)
Audio EE Delay
MP3 Playback
IC6702
C0JBAB000474
(CLOCK OUT)
FL6701
F1H0J1050018
FL6703
F1H0J1050018
D5V
D3.3V
DGND
A
B
C
D
E
F
G
1
2
3
4
5
6
7
8
9
10
11

DMR-E100H GCS/GN/GH/GK
Glue Section(Digital P.C.B.(6/9)) Schematic Diagram(G)

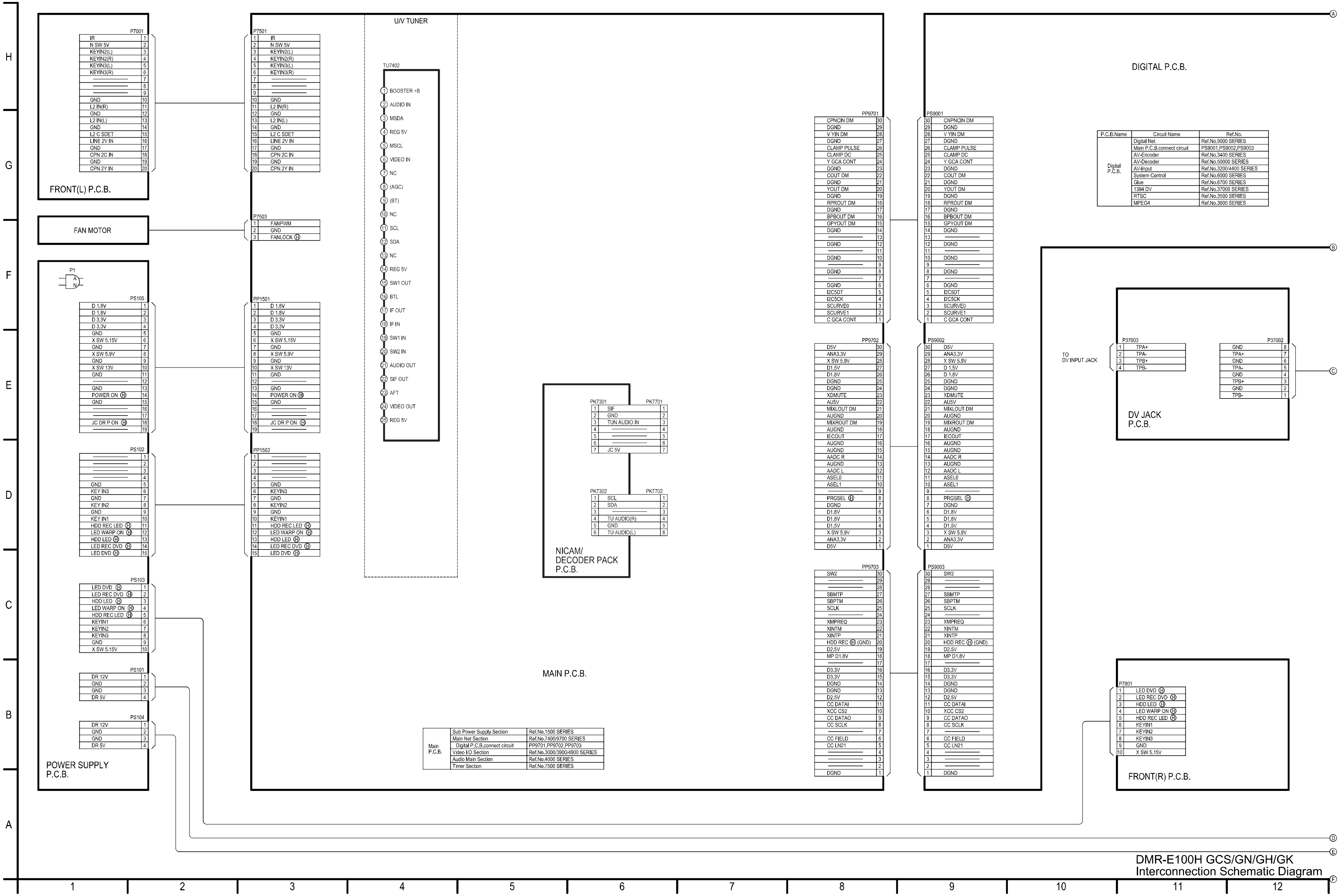

K
A
B
C
D
E
F
D3.3V
D5V
RX6731 2.2KX4
RX6745 33KX4
RX6741 3.3KX4
RX6742 3.3KX4
RX6743 3.3KX4
RX6744 3.3KX4
RX6732 47X4
RX6735 47X4
RX6736 47X4
RX6740 33KX4
RX6737 47X4
RX6739 33KX4
RX6738 47X4
RX6733 33KX4
FL6702 F1H0J1050018
RX6725 47X4
RX6724 47X4
R6722 10K
R6724 47
RX6720 10KX4
RX6714 10KX4
RX6721 47X4
R6723 47
RX6730 47X4
Q6701 2SD0601A0L (BUFFER)
Q6702 2SD0601A0L (BUFFER)
Q6703 2SD0601A0L (BUFFER)
Q6704 2SD0601A0L (BUFFER)
R6753 4700
R6750 10K
RX6704 4.7KX4
RX6703 10KX4
R6728 100K
IC6704
REP3543F : E100H GCS
REP3543FG : E100H GN
REP3543FH : E100H GH
REP3543FJ : E100H GK
(DATA STRAGE)
NC NC NC NC NC XWP XWEF ALE CLE NC NC VSS VCC (D3.3V) NC NC XCE XREF RXB XSE NC NC NC NC NC
NC NC NC NC D0 D1 D2 D3 NC NC NC VSS VCC (D3.3V) NC NC NC D4 D5 D6 D7 NC NC NC NC
CL6800 CL6805 CL6804 CL6798 CL6792 CL6787 CL6788 CL6806 CL6802 CL6803 CL6791 CL6790 CL6793
DECIEC AD
DMIX AD
LRCK AD
SRCK AD
1DADATA AD
1DABCK AD
1DALRCK AD
ADBCK1 AI
ADLRCK1 AI
ADDATA1 AI
ENCBCK EN MP
ENCLRCK EN MP
ENCDATA EN MP
XIRQ0 S
MCK512 AD
UARTG2M S
UARTM2G S
XMPREQ DN
XINTM DN
SBMTP DN
SBPTM DN
XINTP DN
SCLK DN
XGINT1 S
XGINT2 S
XDK S
XFROMCS S
CC LN21 DN
MRWR AI
MRWW AI
XDAVINT DS
XDAVDK DS
XMPIRQ MP
XDECDK AD
XDECCS AD
XDAVCS DS
XENCCS EN
XAIOFCS AI
MSD16 – MSD31 AD EN AI DV DS
XMPDK MP
XLINKIRQ DV
XDVDK DV
XDVCS DV
12
13
14
15
16
17
18
19
20
21
22

DN:Digital Net Section(Page: **F**)
AI:AV Input Section(Page: **G**)
EN:AV Encoder Section(Page: **H**)
AD:AV Decoder Section(Page: **I**)
S:System Control Section(Page: **J**)
G:Glue Section(Page: **K**)
DV:1394 DV Section(Page: **L**)
DS:RTSC Section(Page: **M**)
MP:MPEG4 Section(Page: **N**)

NOTE:DO NOT USE THE PART NUMBER SHOWN ON THIS DRAWING FOR ORDERING. THE CORRECT PART NUMBER IS SHOWN IN THE PARTS LIST, AND MAY BE SLIGHTLY DIFFERNT OR AMENDED SINCE THIS DRAWING WAS PREPARED.

DMR-E100H GCS/GN/GH/GK
Glue Section(Digital P.C.B.(6/9)) Schematic Diagram(G)

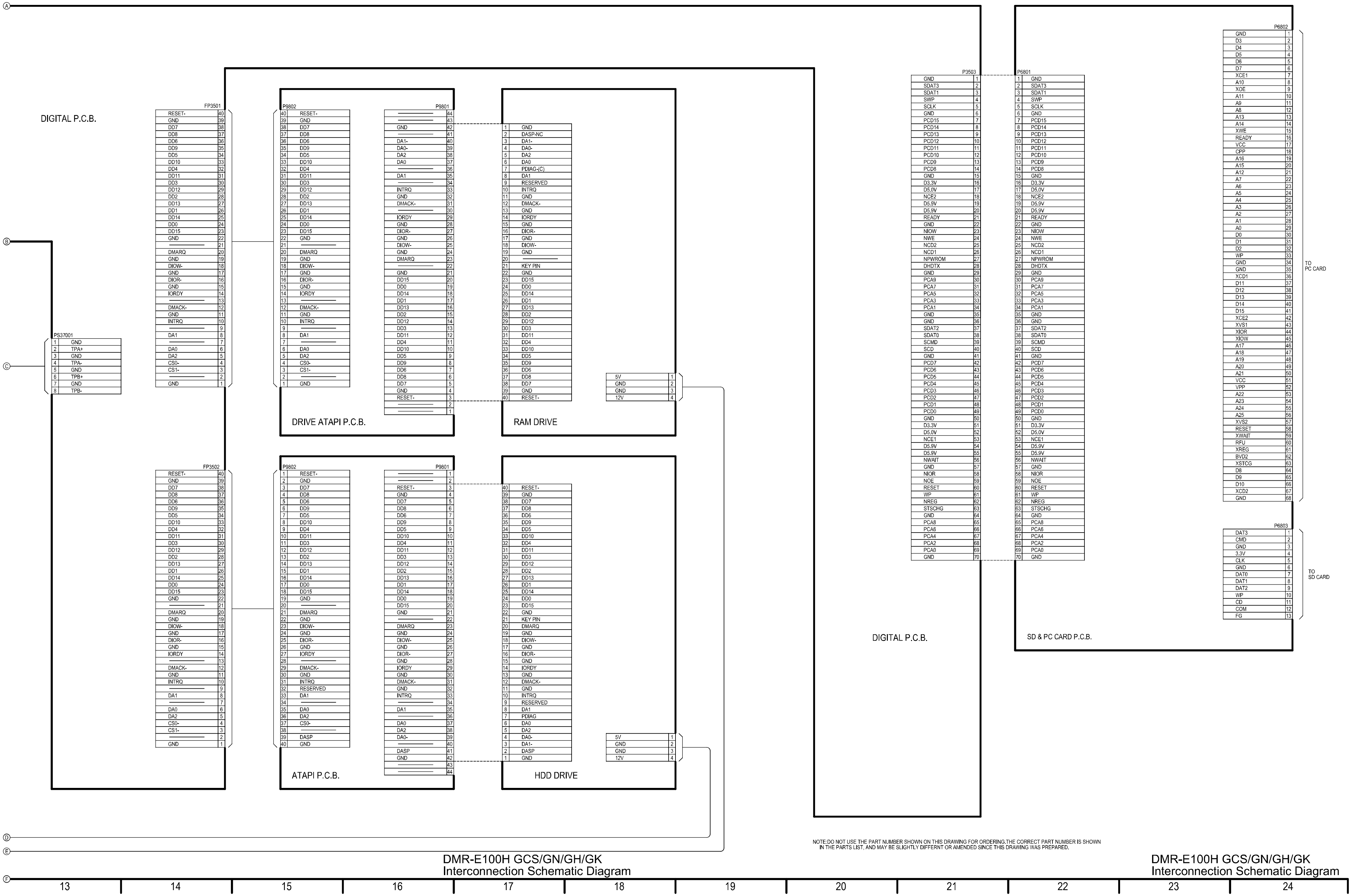
DMR-E100H GCS/GN/GH/GK
Glue Section(Digital P.C.B.(6/9))
Schematic Diagram(G)


FRONT(L) P.C.B.
P7001
FAN MOTOR
POWER SUPPLY P.C.B.
P1
PS105
PS102
PS103
PS101
PS104
MAIN P.C.B.
P7501
P7503
PP1501
PP1503
U/V TUNER
TU7402
BOOSTER +B
AUDIO IN
MSDA
REG 5V
MSCL
VIDEO IN
NC
(AGC)
(BT)
NC
SCL
SDA
NC
REG 5V
SW1 OUT
BTL
IF OUT
IF IN
SW1 IN
SW2 IN
AUDIO OUT
SIF OUT
AFT
VIDEO OUT
REG 5V
NICAM/ DECODER PACK P.C.B.
PK7301
PK7701
PK7302
PK7702
PP9701
PP9702
PP9703
DIGITAL P.C.B.
PS9001
PS9002
PS9003
TO DV INPUT JACK
P37003
P37002
DV JACK P.C.B.
FRONT(R) P.C.B.
P7801
A
B
C
D
E
F
G
H
1
2
3
4
5
6
7
8
9
10
11
12

P.C.B.Name	Circuit Name	Ref.No.
Digital P.C.B.	Digital Net	Ref.No.9000 SERIES
	Main P.C.B.connect circuit	PS9001,PS9002,PS9003
	AV-Encoder	Ref.No.3400 SERIES
	AV-Decoder	Ref.No.50000 SERIES
	AV-Input	Ref.No.3200/4400 SERIES
	System Control	Ref.No.6000 SERIES
	Glue	Ref.No.6700 SERIES
	1394 DV	Ref.No.37000 SERIES
	RTSC	Ref.No.3500 SERIES
	MPEG4	Ref.No.3600 SERIES

Main P.C.B.	Sub Power Supply Section	Ref.No.1500 SERIES
	Main Net Section	Ref.No.7400/9700 SERIES
	Digital P.C.B.connect circuit	PP9701,PP9702,PP9703
	Video I/O Section	Ref.No.3000/3900/4900 SERIES
	Audio Main Section	Ref.No.4000 SERIES
	Timer Section	Ref.No.7500 SERIES

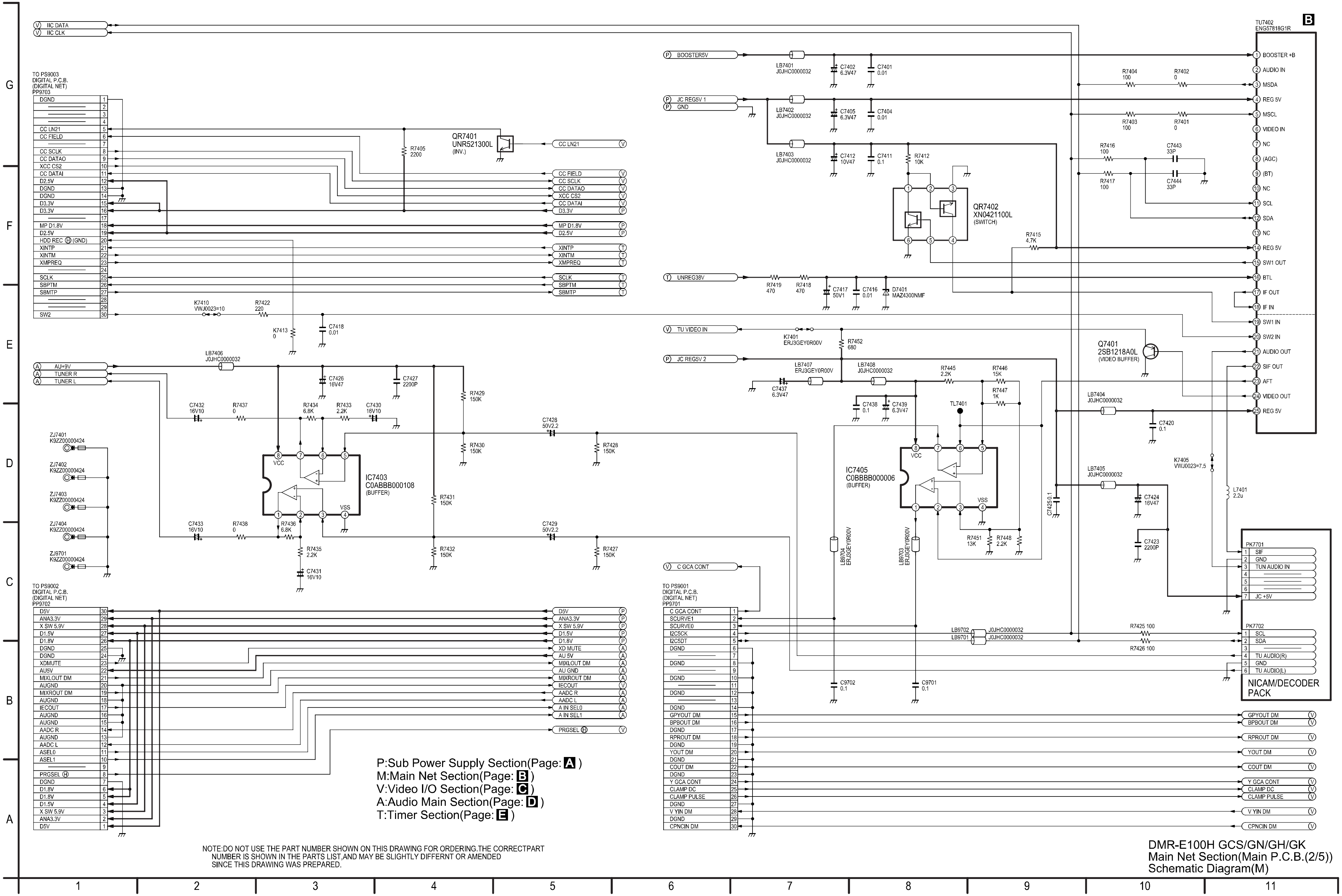
DMR-E100H GCS/GN/GH/GK
Interconnection Schematic Diagram


DIGITAL P.C.B.
FP3501
FP3502
PS37001
P9802
P9801
DRIVE ATAPI P.C.B.
RAM DRIVE
ATAPI P.C.B.
HDD DRIVE
P3503
P6801
P6802
P6803
DIGITAL P.C.B.
SD & PC CARD P.C.B.
TO PC CARD
TO SD CARD
5V
GND
GND
12V
A
B
C
D
E
F

NOTE:DO NOT USE THE PART NUMBER SHOWN ON THIS DRAWING FOR ORDERING.THE CORRECT PART NUMBER IS SHOWN IN THE PARTS LIST, AND MAY BE SLIGHTLY DIFFERNT OR AMENDED SINCE THIS DRAWING WAS PREPARED.

DMR-E100H GCS/GN/GH/GK
Interconnection Schematic Diagram

DMR-E100H GCS/GN/GH/GK
Interconnection Schematic Diagram


B
TU7402
ENG57818G1R
BOOSTER +B
AUDIO IN
MSDA
REG 5V
MSCL
VIDEO IN
NC
(AGC)
(BT)
SCL
SDA
IF OUT
IF IN
SW1 OUT
BTL
SW1 IN
SW2 IN
AUDIO OUT
SIF OUT
AFT
VIDEO OUT
IIC DATA
IIC CLK
BOOSTER5V
JC REG5V 1
GND
UNREG38V
TU VIDEO IN
JC REG5V 2
LB7401
LB7402
LB7403
J0JHC0000032
C7402 6.3V47
C7401 0.01
C7405 6.3V47
C7404 0.01
C7412 10V47
C7411 0.1
R7412 10K
R7404 100
R7402 0
R7403 100
R7401 0
R7416 100
R7417 100
C7443 33P
C7444 33P
QR7402
XN0421100L
(SWITCH)
R7415 4.7K
R7419 470
R7418 470
C7417 50V1
C7416 0.01
D7401 MAZ4300NMF
K7401 ERJ3GEY0R00V
R7452 680
Q7401
2SB1218A0L
(VIDEO BUFFER)
LB7407 ERJ3GEY0R00V
LB7408 J0JHC0000032
C7437 6.3V47
C7438 0.1
C7439 6.3V47
R7445 2.2K
R7446 15K
R7447 1K
TL7401
LB7404 J0JHC0000032
C7420 0.1
IC7405
C0BBBB000006
(BUFFER)
R7451 13K
R7448 2.2K
C7425 0.1
LB7405 J0JHC0000032
C7424 16V47
C7423 2200P
K7405 VWJ0023=7.5
L7401 2.2u
LB9704 ERJ3GEY0R00V
LB9703 ERJ3GEY0R00V
C9702 0.1
C9701 0.1
PK7701
SIF
TUN AUDIO IN
JC +5V
PK7702
TU AUDIO(R)
TU AUDIO(L)
NICAM/DECODER PACK
LB9702 J0JHC0000032
LB9701 J0JHC0000032
R7425 100
R7426 100
C GCA CONT
TO PS9001
DIGITAL P.C.B.
(DIGITAL NET)
PP9701
SCURVE1
SCURVE0
I2C5CK
I2C5DT
DGND
GPYOUT DM
BPBOUT DM
RPROUT DM
YOUT DM
COUT DM
Y GCA CONT
CLAMP DC
CLAMP PULSE
V YIN DM
CPNCIN DM
TO PS9003
DIGITAL P.C.B.
(DIGITAL NET)
PP9703
CC LN21
CC FIELD
CC SCLK
CC DATAO
XCC CS2
CC DATAI
D2.5V
D3.3V
MP D1.8V
HDD REC (GND)
XINTP
XINTM
XMPREQ
SCLK
SBPTM
SBMTP
SW2
QR7401
UNR521300L
(INV.)
R7405 2200
K7410 VWJ0023=10
R7422 220
K7413 0
C7418 0.01
AU+9V
TUNER R
TUNER L
LB7406 J0JHC0000032
C7426 16V47
C7427 2200P
R7429 150K
C7432 16V10
R7437 0
R7434 6.8K
R7433 2.2K
C7430 16V10
C7428 50V2.2
R7430 150K
R7428 150K
IC7403
C0ABBB000108
(BUFFER)
VCC
VSS
R7431 150K
C7433 16V10
R7438 0
R7436 6.8K
R7435 2.2K
C7431 16V10
C7429 50V2.2
R7432 150K
R7427 150K
ZJ7401 K9ZZ00000424
ZJ7402 K9ZZ00000424
ZJ7403 K9ZZ00000424
ZJ7404 K9ZZ00000424
ZJ9701 K9ZZ00000424
TO PS9002
DIGITAL P.C.B.
(DIGITAL NET)
PP9702
D5V
ANA3.3V
X SW 5.9V
D1.5V
D1.8V
XDMUTE
AU5V
MIXLOUT DM
AUGND
MIXROUT DM
IECOUT
AADC R
AADC L
ASEL0
ASEL1
PRGSEL
XD MUTE
AU 5V
AU GND
A IN SEL0
A IN SEL1
G
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11

P:Sub Power Supply Section(Page: **A**)
M:Main Net Section(Page: **B**)
V:Video I/O Section(Page: **C**)
A:Audio Main Section(Page: **D**)
T:Timer Section(Page: **E**)

NOTE:DO NOT USE THE PART NUMBER SHOWN ON THIS DRAWING FOR ORDERING.THE CORRECTPART NUMBER IS SHOWN IN THE PARTS LIST,AND MAY BE SLIGHTLY DIFFERNT OR AMENDED SINCE THIS DRAWING WAS PREPARED.

DMR-E100H GCS/GN/GH/GK
Main Net Section(Main P.C.B.(2/5))
Schematic Diagram(M)

MAIN P.C.B.																	
Integrated Circuit		TL7504	B-3	LB4902	F-6	C3059	F-6	C4074	E-2	R1501	C-3	R3902	F-2	R7422	E-7	R7577	B-2
IC1501	E-7	TL7505	B-2	LB4907	F-4	C3060	F-6	C4076	D-3	R1502	C-3	R3903	F-3	R7425	C-7	R7578	B-2
IC1502	C-3	TL7506	B-4	LB4908	F-3	C3061	E-6	C4077	E-3	R1515	D-2	R3904	F-3	R7426	C-8	R7580	B-2
IC1503	B-5	TL7507	A-5	LB4909	F-4	C3062	E-7	C4078	E-3	R3001	D-6	R3905	F-5	R7427	B-8	R7581	B-2
IC1504	C-3	TL7538	A-1	LB4910	F-4	C3063	F-7	C4079	E-3	R3002	D-6	R3906	F-4	R7428	B-8	R7582	B-2
IC1505	C-2	**Connector**		LB4911	F-2	C3064	F-6	C4080	D-3	R3003	B-6	R3907	F-5	R7429	A-7	R7583	B-3
IC1507	C-3	JK3901	F-2	LB4912	F-2	C3066	C-4	C4082	F-4	R3004	D-6	R3908	F-5	R7430	A-7	R7584	B-3
IC1508	E-7	JK3902	F-4	LB4913	F-2	C3067	C-4	C4083	F-3	R3005	D-6	R3920	F-6	R7431	A-7	R7586	C-3
IC1509	C-2	JK3903	F-5	LB4914	F-2	C3068	C-3	C4084	F-4	R3006	D-6	R3921	F-2	R7432	B-8	R7587	B-2
IC1513	F-7	P7501	A-7	LB7401	F-7	C3069	C-3	C4085	F-3	R3007	E-5	R3922	F-4	R7433	A-7	R7588	B-1
IC3002	C-4	P7503	F-1	LB7402	F-7	C3070	C-3	C4901	F-7	R3008	E-6	R3923	F-2	R7434	A-8	R7590	A-6
IC3003	C-6	PP1501	C-1	LB7403	E-7	C3071	C-6	C4902	F-6	R3009	E-6	R3924	F-4	R7435	B-8	R7600	F-1
IC3005	E-6	PP1503	B-1	LB7404	D-7	C3072	D-6	C4903	F-6	R3010	E-6	R3926	F-5	R7436	A-8	R7601	F-1
IC4002	E-3	PP9701	C-7	LB7405	C-7	C3073	E-6	C4904	F-6	R3011	E-6	R3927	F-5	R7437	A-8	R7602	F-1
IC4003	E-3	PP9702	C-5	LB7406	B-7	C3074	D-6	C4905	F-6	R3012	C-4	R4002	E-2	R7438	B-8	**Transformer**	
IC4009	E-4	PP9703	B-5	LB7407	C-7	C3075	D-6	C4907	F-2	R3013	C-5	R4003	D-3	R7445	D-7	T7501	B-2
IC4010	E-2	PP9704	F-1	LB7408	C-7	C3076	C-6	C4908	F-2	R3014	C-4	R4004	E-2	R7446	D-7	**Backup Battery**	
IC4011	E-2	**Diode**		LB7508	A-2	C3077	C-6	C4911	F-2	R3015	D-4	R4006	E-3	R7447	D-7	B7501	C-2
IC4012	E-2	D3001	C-6	LB9701	C-7	C3078	D-6	C4912	F-2	R3016	D-4	R4008	E-2	R7448	D-7		
IC4901	F-6	D4005	E-3	LB9702	C-7	C3079	D-6	C4915	F-3	R3017	F-3	R4011	D-3	R7451	D-7		
IC7403	A-8	D4006	E-3	LB9703	C-7	C3080	C-6	C4916	F-4	R3018	F-3	R4013	D-4	R7452	E-7		
IC7405	D-7	D7401	D-8	LB9704	C-7	C3081	B-6	C4917	F-4	R3019	C-3	R4014	E-2	R7501	A-4		
IC7501	A-3	D7502	A-1	**Capacitor**		C3082	B-6	C4918	F-4	R3020	C-4	R4015	E-4	R7502	A-4		
IC7502	B-3	D7503	A-1	C1502	C-1	C3083	C-6	C7401	F-7	R3021	C-4	R4017	E-2	R7503	A-4		
IC7503	B-4	D7505	B-2	C1503	C-1	C3084	B-6	C7402	F-7	R3022	C-4	R4021	E-4	R7504	A-4		
IC7504	B-2	D7506	A-2	C1504	C-1	C3085	C-6	C7404	F-7	R3024	E-7	R4022	E-3	R7505	A-2		
IC7505	B-3	D7507	A-2	C1505	C-1	C3086	D-6	C7405	F-7	R3025	D-6	R4024	E-2	R7506	A-2		
IC7507	F-1	D7513	C-2	C1506	C-1	C3087	C-6	C7411	E-7	R3026	C-4	R4026	E-4	R7507	B-2		
Transistor		D7514	C-2	C1507	F-7	C3088	C-6	C7412	E-7	R3027	C-4	R4030	E-2	R7508	B-2		
Q3001	D-6	**Crystal Osillator**		C1508	C-3	C3089	B-6	C7416	F-8	R3028	E-7	R4037	E-2	R7509	B-2		
Q3002	E-6	X3001	C-4	C1509	E-7	C3090	B-6	C7417	D-8	R3029	E-7	R4038	E-3	R7510	B-2		
Q3003	E-7	X7501	B-2	C1510	B-5	C3091	C-6	C7418	E-7	R3030	C-4	R4040	E-2	R7513	B-2		
Q3004	C-4	X7502	B-3	C1511	B-5	C3092	D-6	C7420	D-7	R3032	C-6	R4041	E-3	R7514	B-2		
Q3005	C-3	**IC Protector**		C1512	D-3	C3093	B-6	C7423	C-8	R3033	C-6	R4042	E-3	R7515	A-4		
Q3006	C-3	IP7501	B-1	C1514	C-2	C3094	B-6	C7424	C-8	R3039	C-4	R4043	E-3	R7516	A-4		
Q3007	D-6	**Coil**		C1515	C-3	C3095	B-7	C7425	C-7	R3040	C-4	R4044	E-4	R7517	A-2		
Q3008	D-6	L3001	D-6	C1517	C-3	C3096	B-6	C7426	A-7	R3041	C-3	R4045	E-4	R7518	A-1		
Q3009	D-6	L3002	D-6	C1518	D-1	C3097	C-4	C7427	A-8	R3042	D-6	R4046	E-4	R7519	A-1		
Q3010	E-6	L3003	E-6	C1528	F-7	C3098	C-6	C7428	B-7	R3043	D-6	R4047	E-4	R7521	A-2		
Q3011	E-7	L3004	E-6	C1530	F-7	C3099	C-4	C7429	B-7	R3044	D-6	R4048	E-4	R7522	A-2		
Q3012	C-4	L3005	E-6	C1531	E-7	C3100	C-4	C7430	A-7	R3045	D-6	R4049	E-3	R7523	A-2		
Q3015	C-4	L3006	B-4	C1532	C-3	C3101	C-4	C7431	B-7	R3046	E-6	R4050	E-3	R7524	A-2		
Q4004	E-2	L3007	E-6	C3001	E-6	C3102	B-6	C7432	A-8	R3047	D-6	R4051	E-3	R7525	A-4		
Q4006	F-4	L3008	E-7	C3002	D-6	C3103	C-6	C7433	A-8	R3048	D-6	R4052	E-2	R7526	A-3		
Q4007	F-3	L3009	E-6	C3003	D-6	C3104	C-4	C7437	C-8	R3049	E-6	R4053	E-2	R7527	A-3		
Q4008	F-4	L3010	D-7	C3004	D-6	C3901	F-3	C7438	D-7	R3050	E-6	R4054	E-3	R7528	A-3		
Q4009	F-4	L3012	E-6	C3005	D-6	C3902	F-2	C7439	D-7	R3051	E-6	R4055	E-4	R7529	A-4		
Q7401	E-7	L3014	E-7	C3006	D-6	C3904	F-3	C7443	E-7	R3052	D-6	R4057	E-4	R7530	B-4		
Q7501	A-2	L3015	E-6	C3007	D-6	C3905	F-4	C7444	E-7	R3053	D-6	R4060	E-3	R7531	B-4		
Q7502	A-2	L3016	E-6	C3008	E-5	C3906	F-5	C7502	B-4	R3054	C-3	R4061	E-3	R7532	B-3		
Q7509	F-1	L3017	B-6	C3009	E-7	C3907	F-3	C7503	B-3	R3055	C-4	R4062	E-3	R7533	B-3		
Q7510	A-4	L3018	B-6	C3010	E-6	C4003	E-4	C7504	A-3	R3056	C-3	R4063	E-2	R7534	B-3		
Q7511	A-4	L3019	D-6	C3011	E-6	C4005	E-4	C7505	A-3	R3057	C-4	R4064	E-3	R7536	B-3		
Transistor-resistor		L3020	D-6	C3012	E-6	C4006	E-4	C7506	A-3	R3058	C-3	R4065	E-3	R7537	B-4		
QR3001	E-6	L3021	D-6	C3013	C-6	C4021	E-3	C7507	B-4	R3060	C-3	R4066	E-2	R7540	B-3		
QR3002	D-7	L3022	D-6	C3014	D-6	C4023	D-4	C7508	B-4	R3061	C-6	R4067	E-2	R7541	B-3		
QR3004	D-6	L3023	D-7	C3016	D-6	C4025	D-4	C7517	B-4	R3062	C-6	R4068	E-4	R7542	B-3		
QR3005	E-6	L4901	F-6	C3017	E-7	C4026	E-2	C7518	B-3	R3063	C-6	R4071	F-4	R7543	B-3		
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QR3007	D-7	L7501	B-1	C3019	D-7	C4029	E-2	C7523	B-3	R3065	C-6	R4073	D-2	R7545	B-2		
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QR3011	B-4	LB1501	C-1	C3024	D-4	C4037	E-2	C7528	B-1	R3070	F-6	R4078	E-4	R7549	B-4		
QR4002	D-2	LB1502	C-1	C3025	C-4	C4038	E-2	C7529	A-1	R3071	C-6	R4079	F-3	R7550	B-4		
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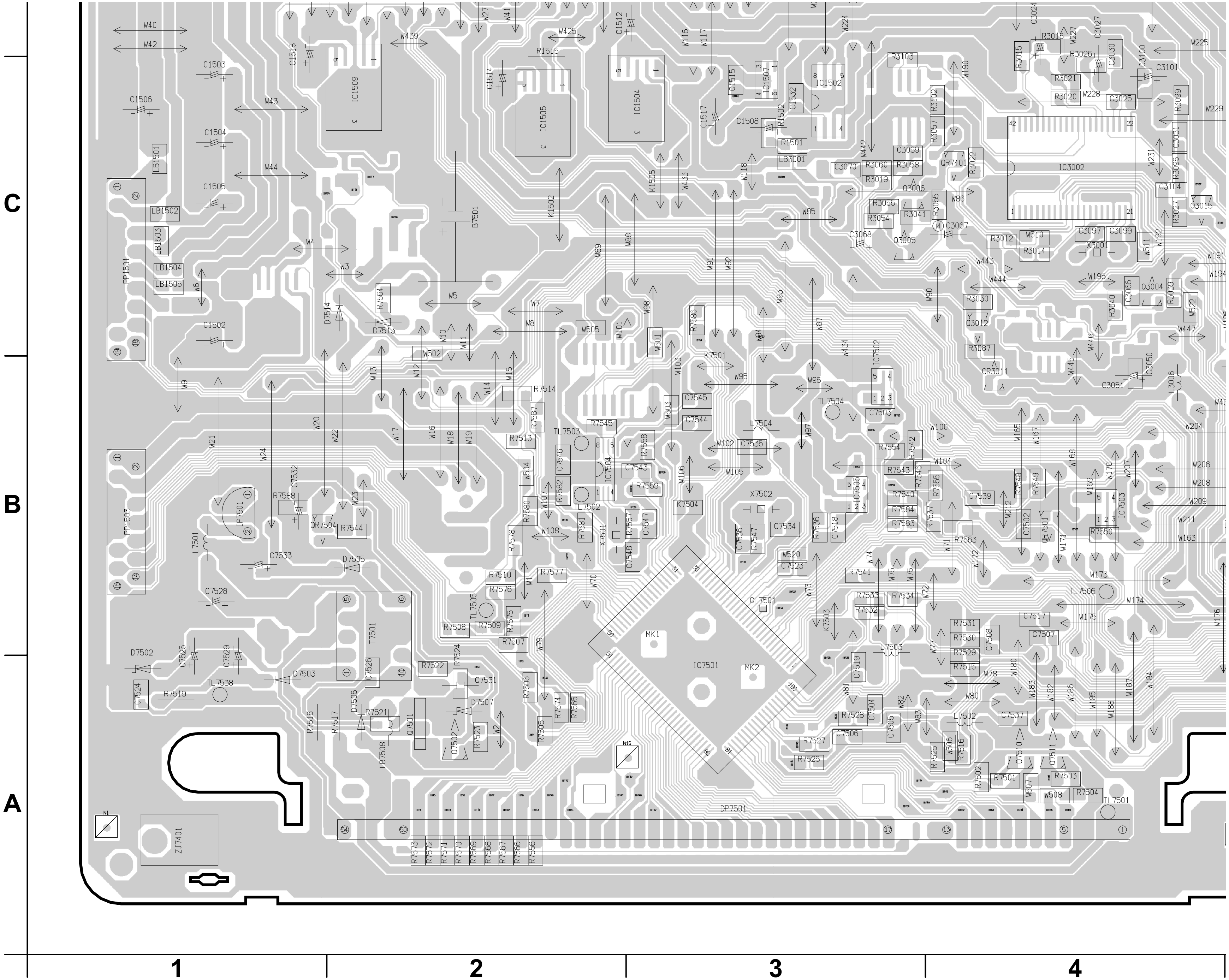
QR4007	E-2	LB3901	F-5	C3031	C-4	C4043	E-3	C7535	B-3	R3076	D-6	R4090	F-4	R7558	B-3		
QR4010	D-2	LB3902	F-5	C3043	E-6	C4052	E-4	C7536	B-3	R3077	B-6	R4091	F-4	R7559	B-3		
QR4011	E-2	LB3903	F-4	C3044	E-6	C4055	E-2	C7537	A-4	R3080	B-6	R4092	F-4	R7563	B-4		
QR4012	E-2	LB3904	F-5	C3045	E-6	C4056	E-1	C7539	B-4	R3084	F-5	R4093	F-3	R7564	C-2		
QR7401	C-4	LB3908	F-6	C3046	E-6	C4057	E-4	C7543	B-3	R3085	F-5	R4903	F-6	R7565	A-2		
QR7402	E-7	LB3909	F-5	C3047	E-6	C4058	E-2	C7544	B-3	R3086	E-7	R7401	F-7	R7566	A-2		
QR7501	B-4	LB3910	F-5	C3048	E-6	C4059	E-2	C7545	B-3	R3087	C-4	R7402	F-7	R7567	A-2		
QR7504	B-1	LB3911	F-4	C3049	E-6	C4060	E-4	C7546	B-2	R3096	C-4	R7403	F-8	R7568	A-2		
Test Point		LB3912	F-4	C3050	B-4	C4061	E-4	C7547	B-3	R3099	C-4	R7404	F-8	R7569	A-2		
CL7501	B-3	LB3913	F-2	C3051	B-4	C4062	E-2	C7548	B-2	R3100	C-5	R7405	C-5	R7570	A-2		
CL9701	B-5	LB3914	F-2	C3052	E-6	C4063	F-4	C7585	F-1	R3102	C-4	R7412	E-7	R7571	A-2		
TL3001	B-6	LB3915	F-3	C3053	E-6	C4064	E-3	C7586	F-1	R3103	C-3	R7415	E-7	R7572	A-2		
TL7401	E-8	LB3916	F-3	C3055	E-6	C4065	E-4	C7587	F-1	R3106	D-7	R7416	E-7	R7573	A-2		
TL7501	A-4	LB3917	F-2	C3056	E-6	C4068	D-2	C9701	C-7	R3107	E-7	R7417	E-7	R7574	A-2		
TL7502	B-2	LB3918	F-3	C3057	E-6	C4070	E-2	C9702	C-7	R3108	E-7	R7418	D-8	R7575	B-2		
TL7503	B-2	LB4901	F-6	C3058	F-6	C4072	E-2	**Resistor**		R3901	F-3	R7419	C-8	R7576	B-2		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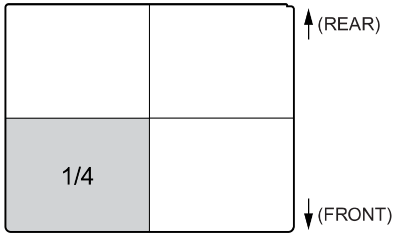
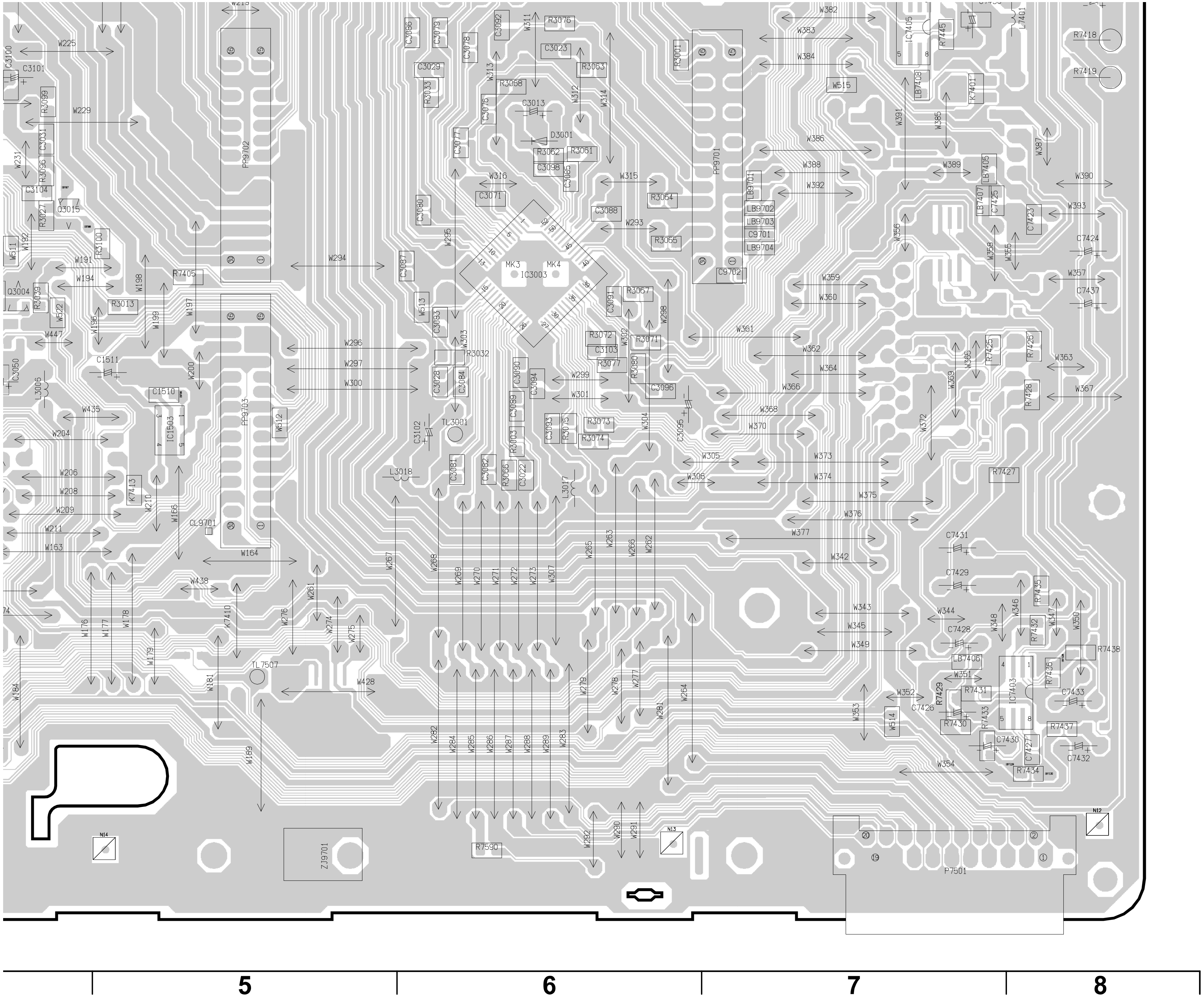
N15

Location Map


1/4
(REAR)
(FRONT)

DMR-E100H GCS/GN/GH/GK
Main P.C.B. (REP3603C)
(1/4 Section)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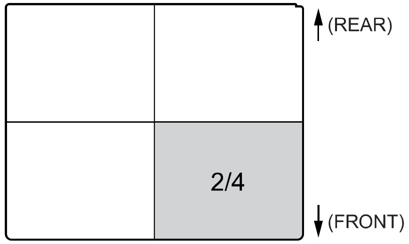
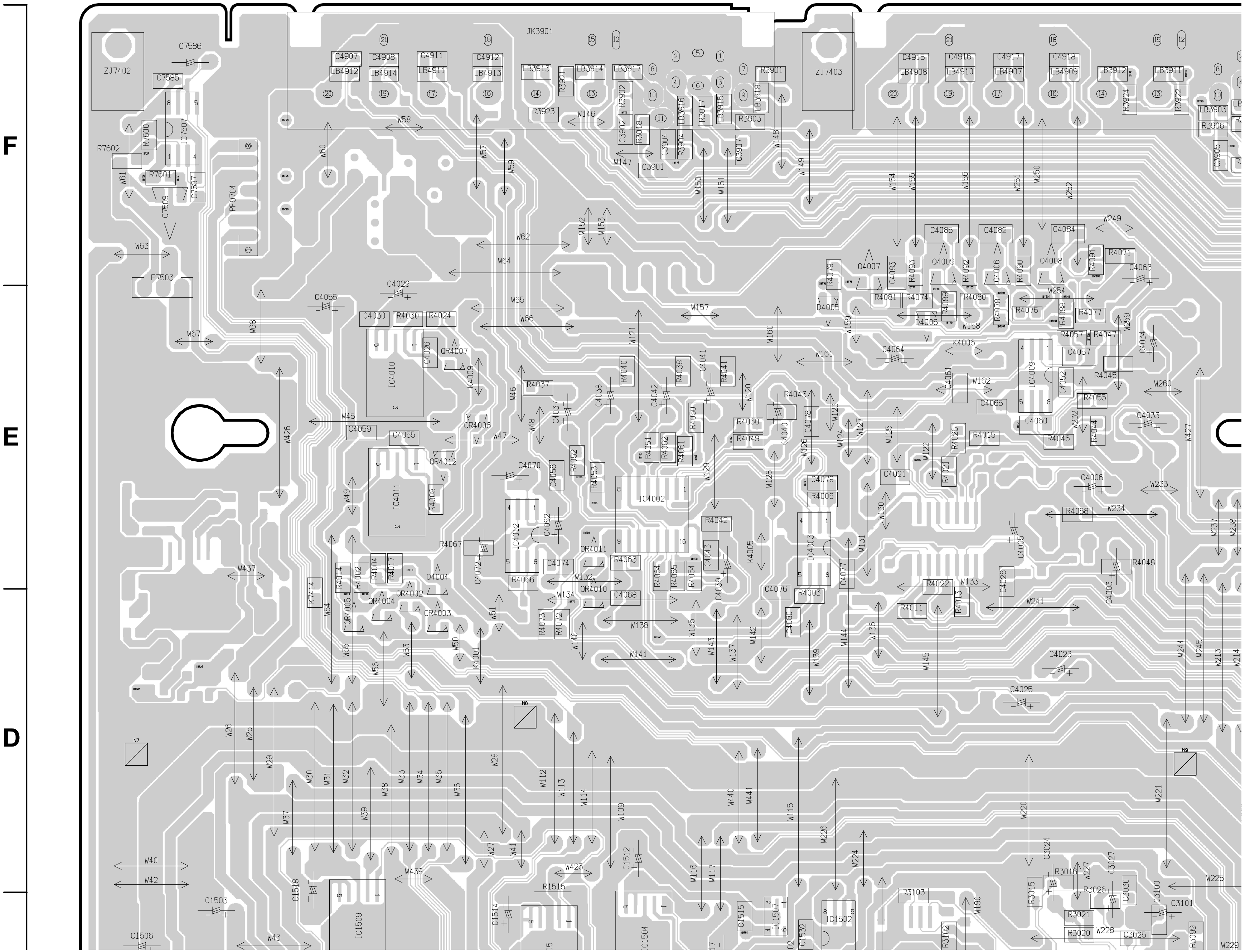
Location Map


(REAR)
2/4
(FRONT)

DMR-E100H GCS/GN/GH/GK
Main P.C.B. (REP3603C)
(2/4 Section)

MAIN P.C.B.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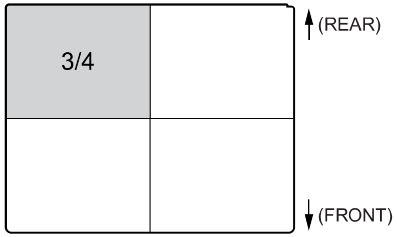
Location Map


3/4
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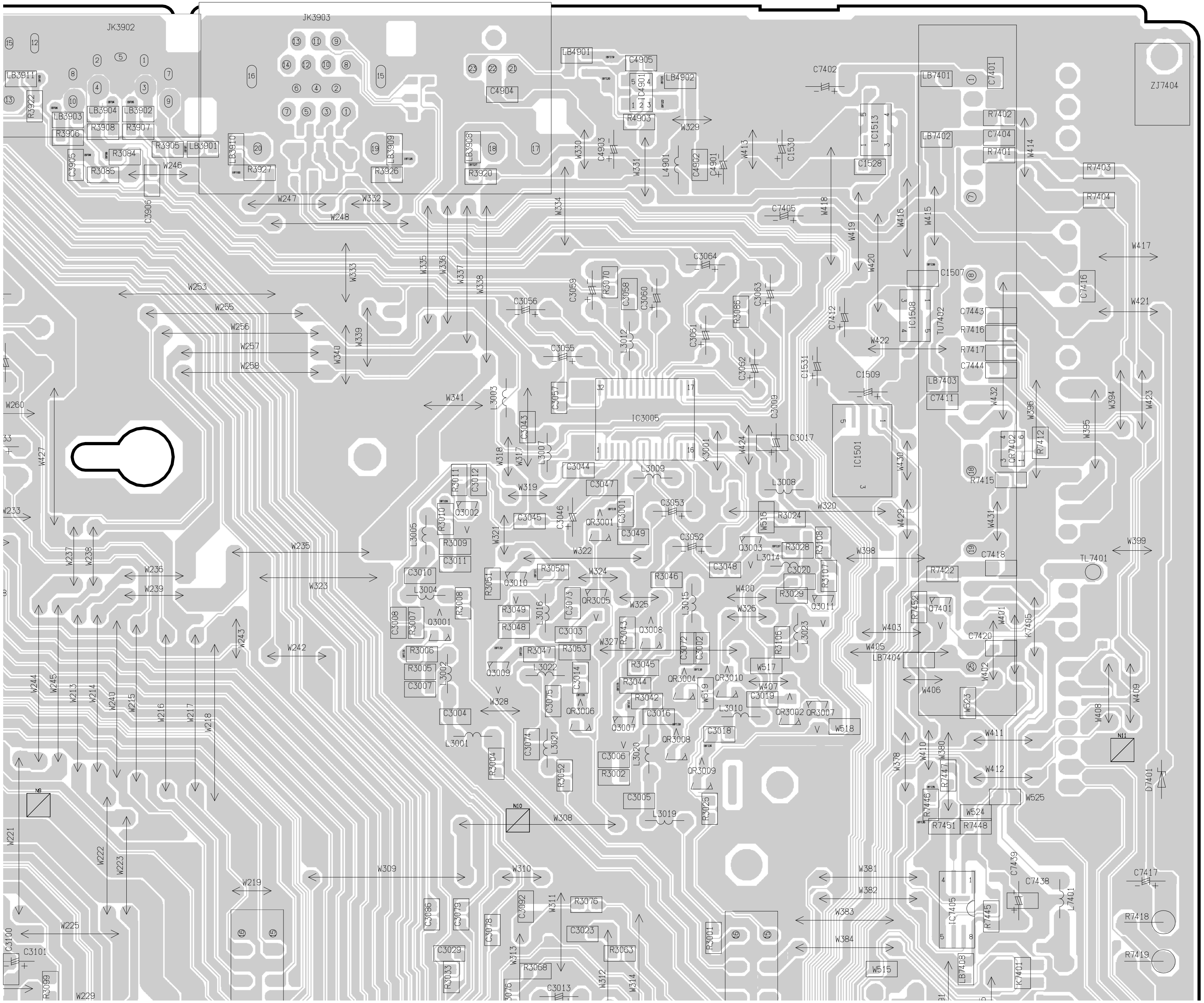
DMR-E100H GCS/GN/GH/GK
Main P.C.B. (REP3603C)
(3/4 Section)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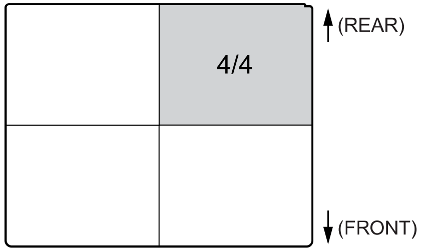
Location Map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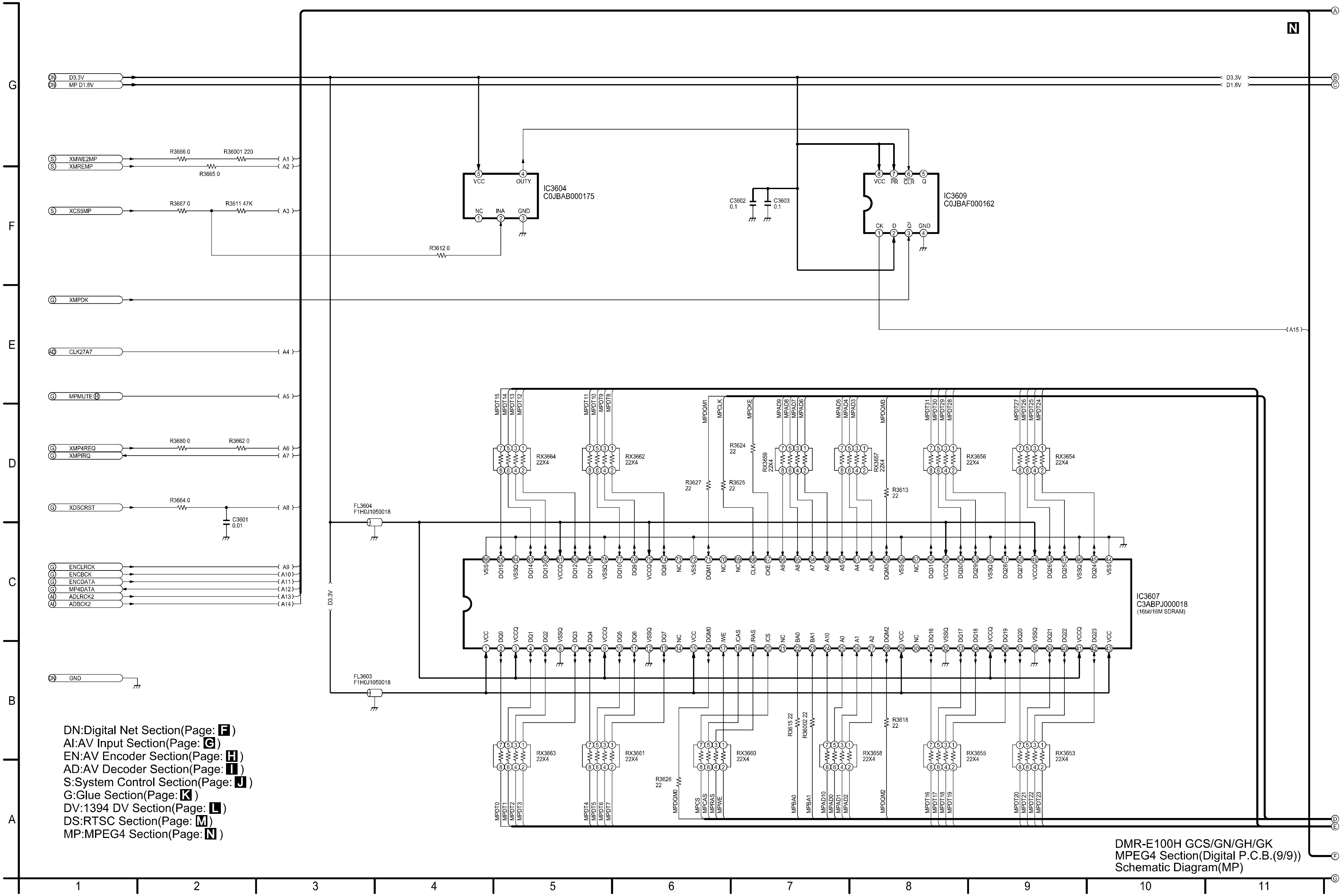
DMR-E100H GCS/GN/GH/GK
Main P.C.B. (REP3603C)
(4/4 Section)

Ref No.	IC1501						IC1502									IC1503				
MODE	1	2	3	4	5		1	2	3	4	5	6	7	8		1	2	3	4	5
REC	5.1	6.6	0	5.0	5.0		1.5	1.5	3.3	3.3	0	0	1.8	1.8		1.2	0	3.2	3.2	1.8
PLAY	5.1	6.6	0	5.0	5.0		1.5	1.5	3.3	3.3	0	0	1.8	1.8		1.2	0	3.2	3.2	1.8
STOP	5.1	6.5	0	5.0	5.0		1.5	1.5	3.3	3.3	0	0	1.8	1.8		1.2	0	3.2	3.2	1.8
Ref No.	IC1504						IC1505						IC1507							
MODE	1	2	3	4	5		1	2	3	4	5		1	2	3	4	5	6		
REC	4.8	5.0	0	3.3	3.3		4.8	5.7	0	5.0	5.0		6.6	0	6.6	1.2	0	5.0		
PLAY	4.8	5.0	0	3.3	3.3		4.8	5.7	0	5.0	5.0		6.6	0	6.6	1.2	0	5.0		
STOP	4.8	5.0	0	3.3	3.3		4.8	5.7	0	5.0	5.0		6.6	0	6.6	1.2	0	5.0		
Ref No.	IC1508						IC1509						IC1513							
MODE	1	2	3	4	5		1	2	3	4	5		1	2	3	4	5			
REC	1.2	0	5.0	5.7	4.9		5.0	3.3	0	2.5	2.5		1.2	0	4.8	5.7	4.9			
PLAY	1.2	0	5.0	5.7	4.9		5.0	3.3	0	2.5	2.5		1.2	0	4.8	5.7	4.9			
STOP	1.2	0	5.0	5.7	4.9		5.0	3.3	0	2.5	2.5		1.2	0	4.8	5.7	4.9			
Ref No.	IC3002																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
REC	5.0	0	0	0	0	0	0	0	5.0	5.0	0.1	0.1	0	0	0	0	0	0	2.4	2.2
PLAY	5.0	0	0	0	0	0	0	0	5.0	5.0	0.1	0.1	0	0	0	0	0	0	2.4	2.2
STOP	5.0	0	0	0	0	0	0	0	5.0	5.0	0.1	0.1	0	0	0	0	0	0	2.4	2.2

Ref No.	IC3002																			
MODE	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
REC	0	5.0	1.8	2.1	0.5	2.0	5.0	5.0	0	5.0	5.0	0	0	0	0	0	0	0	0	0
PLAY	0	5.0	1.8	2.1	0.5	2.0	5.0	5.0	0	5.0	5.0	0	0	0	0	0	0	0	0	0
STOP	0	5.0	1.8	2.1	0.5	2.0	5.0	5.0	0	5.0	5.0	0	0	0	0	0	0	0	0	0
Ref No.	IC3002																			
MODE	41	42																		
REC	0	0																		
PLAY	0	0																		
STOP	0	0																		
Ref No.	IC3003																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
REC	1.4	4.9	1.8	0	1.8	4.7	1.4	0	0	2.6	0	1.4	4.7	1.4	4.9	0.1	2.7	0	1.4	4.7
PLAY	1.4	4.9	1.8	0	1.8	4.7	1.4	0	0	2.6	0	1.4	4.7	1.4	4.9	0.1	2.7	0	1.4	4.7
STOP	1.4	4.9	1.8	0	1.8	4.7	1.4	0	0	2.6	0	1.4	4.7	1.4	4.9	0.1	2.7	0	1.4	4.7
Ref No.	IC3003																			
MODE	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
REC	1.4	0	0.1	2.6	0	1.4	4.9	2.6	4.6	4.9	4.9	0	0	0	2.3	1.1	1.6	1.9	0	1.1
PLAY	1.4	0	0.1	2.6	0	1.4	4.9	2.6	4.6	4.9	4.9	0	0	0	2.3	1.1	1.6	1.9	0	1.1
STOP	1.4	0	0.1	2.6	0	1.4	4.9	2.6	4.6	4.9	4.9	0	0	0	2.3	1.1	1.6	1.9	0	1.1
Ref No.	IC3003																			
MODE	41	42	43	44	45	46	47	48	49	50	51	52								
REC	4.9	1.6	0	1.6	4.9	0.1	1.8	2.2	0	0	0	0								
PLAY	4.9	1.6	0	1.6	4.9	0.1	1.8	2.2	0	0	0	0								
STOP	4.9	1.6	0	1.6	4.9	0.1	1.8	2.2	0	0	0	0								
Ref No.	IC3005																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
REC	1.9	4.9	2.6	0	2.5	4.8	0	2.4	0	1.8	4.8	2.7	0	2.7	5.0	2.1	2.1	0	2.1	0
PLAY	1.9	4.9	2.6	0	2.5	4.8	0	2.4	0	1.8	4.8	2.7	0	2.7	5.0	2.1	2.1	0	2.1	0
STOP	1.9	4.9	2.6	0	2.5	4.8	0	2.4	0	1.8	4.8	2.7	0	2.7	5.0	2.1	2.1	0	2.1	0
Ref No.	IC3005																			
MODE	21	22	23	24	25	26	27	28	29	30	31	32								
REC	1.9	1.9	0	1.9	1.9	0	1.8	0	1.8	1.8	0	2.1								
PLAY	1.9	1.9	0	1.9	1.9	0	1.8	0	1.8	1.8	0	2.1								
STOP	1.9	1.9	0	1.9	1.9	0	1.8	0	1.8	1.8	0	2.1								
Ref No.	IC4002																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16				
REC	5.9	5.9	6.0	6.0	5.9	0	0	0	11.8	11.8	6.0	5.9	6.0	5.9	5.9	12.0				
PLAY	5.9	5.9	6.0	6.0	5.9	0	0	0	11.8	11.8	6.0	5.9	6.0	5.9	5.9	12.0				
STOP	5.9	5.9	6.0	6.0	5.9	0	0	0	11.8	11.8	6.0	5.9	6.0	5.9	5.9	12.0				
Ref No.	IC4003									IC4009										
MODE	1	2	3	4	5	6	7	8		1	2	3	4	5	6	7	8			
REC	6.0	6.0	6.0	0	6.0	6.0	6.0	12.0		6.0	6.0	6.0	0	6.0	6.0	6.0	12.0			
PLAY	6.0	6.0	6.0	0	6.0	6.0	6.0	12.0		6.0	6.0	6.0	0	6.0	6.0	6.0	12.0			
STOP	6.0	6.0	6.0	0	6.0	6.0	6.0	12.0		6.0	6.0	6.0	0	6.0	6.0	6.0	12.0			
Ref No.	IC4010						IC4011						IC4012							
MODE	1	2	3	4	5		1	2	3	4	5		1	2	3	4	5	6	7	8
REC	13.4	14.0	0	12.0	12.0		5.5	5.7	0	5.0	5.0		6.0	6.0	6.0	0	6.0	6.0	6.0	12.0
PLAY	13.4	14.0	0	12.0	12.0		5.5	5.7	0	5.0	5.0		6.0	6.0	6.0	0	6.0	6.0	6.0	12.0
STOP	13.4	14.0	0	12.0	12.0		5.5	5.7	0	5.0	5.0		6.0	6.0	6.0	0	6.0	6.0	6.0	12.0
Ref No.	IC4901						IC7403													
MODE	1	2	3	4	5		1	2	3	4	5	6	7	8						
REC	0	1.6	0	2.5	4.9		6.0	6.0	5.9	0	5.9	6.0	6.0	12.0						
PLAY	0	1.6	0	2.5	4.9		6.0	6.0	5.9	0	5.9	6.0	6.0	12.0						
STOP	0	1.6	0	2.5	4.9		6.0	6.0	5.9	0	5.9	6.0	6.0	12.0						
Ref No.	IC7405																			
MODE	1	2	3	4	5	6	7	8												
REC	0	2.5	1.8	0	2.8	2.5	3.2	4.9												
PLAY	0	2.5	1.8	0	2.8	2.5	3.2	4.9												
STOP	0	2.5	1.8	0	2.8	2.5	3.2	4.9												
Ref No.	IC7501																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
REC	5.0	0	4.6	4.9	0	0	5.0	5.0	2.5	0	0	0	4.9	0	4.9	0	0	5.0	0.6	5.0
PLAY	5.0	0	4.6	4.9	0	0	5.0	5.0	2.5	0	0	0	4.9	0	4.9	0	0	5.0	0.6	5.0
STOP	5.0	0	4.6	4.9	0	0	5.0	5.0	2.5	0	0	0	4.9	0	4.9	0	0	5.0	0.6	5.0
Ref No.	IC7501																			
MODE	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
REC	0	-	-	5.0	5.0	5.0	4.9	5.0	5.0	4.9	0	5.0	5.0	4.8	4.5	4.5	5.0	4.9	4.9	0
PLAY	0	-	-	5.0	5.0	5.0	4.9	5.0	5.0	4.9	0	5.0	5.0	4.8	4.5	4.5	5.0	4.9	4.9	0
STOP	0	-	-	5.0	5.0	5.0	4.9	5.0	5.0	4.9	0	5.0	5.0	4.8	4.5	4.5	5.0	4.9	4.9	0
Ref No.	IC7501																			
MODE	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60
REC	0	0	0	0	4.9	4.9	4.9	-25.3	-21.6	-29.0	-17.9	-17.3	-13.1	-25.2	-25.3	-21.0	-25.3	-25.3	-25.3	-21.6
PLAY	0	0	0	0	4.9	4.9	4.9	-25.3	-21.6	-29.0	-17.9	-17.3	-13.1	-25.2	-25.3	-21.0	-25.3	-25.3	-25.3	-21.6
STOP	0	0	0	0	4.9	4.9	4.9	-25.3	-21.6	-29.0	-17.9	-17.3	-13.1	-25.2	-25.3	-21.0	-25.3	-25.3	-25.3	-21.6
Ref No.	IC7501																			
MODE	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80
REC	-17.4	-9.4	-17.4	-17.9	-21.6	-17.9	-21.0	-17.4	-13.2	-13.6	-12.6	-25.3	-25.3	-25.4	-25.4	-25.3	-25.3	-13.7	-16.8	-21.6
PLAY	-17.4	-9.4	-17.4	-17.9	-21.6	-17.9	-21.0	-17.4	-13.2	-13.6	-12.6	-25.3	-25.3	-25.4	-25.4	-25.3	-25.3	-13.7	-16.8	-21.6
STOP	-17.4	-9.4	-17.4	-17.9	-21.6	-17.9	-21.0	-17.4	-13.2	-13.6	-12.6	-25.3	-25.3	-25.4	-25.4	-25.3	-25.3	-13.7	-16.8	-21.6
Ref No.	IC7501																			
MODE	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
REC	-25.4	-25.4	-25.4	-25.4	-25.4	-25.4	-25.5	-25.5	-29.4	4.9	0	5.0	0	0	5.0	1.7	0	5.0	5.0	5.0
PLAY	-25.4	-25.4	-25.4	-25.4	-25.4	-25.4	-25.5	-25.5	-29.4	4.9	0	5.0	0	0	5.0	1.7	0	5.0	5.0	5.0
STOP	-25.4	-25.4	-25.4	-25.4	-25.4	-25.4	-25.5	-25.5	-29.4	4.9	0	5.0	0	0	5.0	1.7	0	5.0	5.0	5.0

Ref No.	IC7502						IC7503						IC7504							
MODE	1	2	3	4	5		1	2	3	4	5		1	2	3	4	5	6	7	8
REC	0	0	0	4.9	5.0		2.1	3.2	0	0	0		0	0.1	0.5	0	0.6	4.8	4.4	4.9
PLAY	0	0	0	4.9	5.0		2.1	3.2	0	0	0		0	0.1	0.5	0	0.6	4.8	4.4	4.9
STOP	0	0	0	4.9	5.0		2.1	3.2	0	0	0		0	0.1	0.5	0	0.6	4.8	4.4	4.9
Ref No.	IC7505						IC7507													
MODE	1	2	3	4	5		1	2	3	4	5	6	7	8						
REC	5.0	5.0	0	0	0		5.7	1.7	1.7	0	1.7	1.7	1.7	13.9						
PLAY	5.0	5.0	0	0	0		5.7	1.7	1.7	0	1.7	1.7	1.7	13.9						
STOP	5.0	5.0	0	0	0		5.7	1.7	1.7	0	1.7	1.7	1.7	13.9						
Ref No.	Q3001				Q3002				Q3003				Q3004				Q3005			
MODE	E	C	B		E	C	B		E	C	B		E	C	B		E	C	B	
REC	2.0	0	1.4		1.7	0	1.1		1.8	0	1.1		2.2	0	1.6		3.4	4.7	3.4	
PLAY	2.0	0	1.4		1.7	0	1.1		1.8	0	1.1		2.2	0	1.6		3.4	4.7	3.4	
STOP	2.0	0	1.4		1.7	0	1.1		1.8	0	1.1		2.2	0	1.6		3.4	4.7	3.4	
Ref No.	Q3006				Q3007				Q3008				Q3009				Q3010			
MODE	E	C	B		E	C	B		E	C	B		E	C	B		E	C	B	
REC	4.9	0.5	4.7		1.6	0	1.0		1.0	4.9	1.6		1.6	0	1.0		1.0	4.9	1.6	
PLAY	4.9	0.5	4.7		1.6	0	1.0		1.0	4.9	1.6		1.6	0	1.0		1.0	4.9	1.6	
STOP	4.9	0.5	4.7		1.6	0	1.0		1.0	4.9	1.6		1.6	0	1.0		1.0	4.9	1.6	
Ref No.	Q3011				Q3012				Q3015				Q4004				Q4006			
MODE	E	C	B		E	C	B		E	C	B		E	C	B		E	C	B	
REC	1.1	1.1	0		0	4.7	0.2		2.2	0	1.6		5.0	0	5.0		0	0	-0.4	
PLAY	1.1	1.1	0		0	4.7	0.2		2.2	0	1.6		5.0	0	5.0		0	0	-0.1	
STOP	1.1	1.1	0		0	4.7	0.2		2.2	0	1.6		5.0	0	5.0		0	0	-0.4	
Ref No.	Q4007				Q4008				Q4009				Q7401				Q7501			
MODE	E	C	B		E	C	B		E	C	B		E	C	B		E	C	B	
REC	0	0	-0.2		0	0	-0.4		0	0	-0.4		2.7	0	2.1		0	8.7	-1.1	
PLAY	0	0	-0.2		0	0	-0.1		0	0	-0.1		2.7	0	2.1		0	8.7	-1.1	
STOP	0	0	-0.1		0	0	-0.4		0	0	-0.4		2.7	0	2.1		0	8.7	-1.1	
Ref No.	Q7502				Q7509				Q7510				Q7511							
MODE	E	C	B		1	2	3		E	C	B		E	C	B					
REC	0	-1.1	-1.9		4.9	14.0	5.6		-25.6	5.0	-25.5		-25.6	5.0	-25.5					
PLAY	0	-1.1	-1.9		4.9	14.0	5.6		-25.6	5.0	-25.5		-25.6	5.0	-25.5					
STOP	0	-1.1	-1.9		4.9	14.0	5.6		-25.6	5.0	-25.5		-25.6	5.0	-25.5					
Ref No.	QR3001				QR3002				QR3004				QR3005				QR3006			
MODE	E	C	B		E	C	B		E	C	B		E	C	B		E	C	B	
REC	0	0	4.7		0	0	4.7		0	0	4.7		0	0	4.7		0	0	4.7	
PLAY	0	0	4.7		0	0	4.7		0	0	4.7		0	0	4.7		0	0	4.7	
STOP	0	0	4.7		0	0	4.7		0	0	4.7		0	0	4.7		0	0	4.7	
Ref No.	QR3007				QR3008				QR3009				QR3010				QR3011			
MODE	E	C	B		E	C	B		E	C	B		E	C	B		E	C	B	
REC	0	0	4.7		0	0	4.7		0	0.2	0		0	0	4.7		4.9	0.1	4.7	
PLAY	0	0	4.7		0	0	4.7		0	0.1	0		0	0	4.7		4.9	0.1	4.7	
STOP	0	0	4.7		0	0	4.7		0	0.1	0		0	0	4.7		4.9	0.1	4.7	
Ref No.	QR4002				QR4003				QR4004				QR4005				QR4006			
MODE	E	C	B		E	C	B		E	C	B		E	C	B		E	C	B	
REC	0	0	5.0		0	0	2.2		0	5.0	0		0	5.0	0		0	0	4.8	
PLAY	0	0	5.0		0	0	2.2		0	5.0	0		0	5.0	0		0	0	4.8	
STOP	0	0	5.0		0	0	2.2		0	5.0	0		0	5.0	0		0	0	4.8	
Ref No.	QR4007				QR4010				QR4011				QR4012				QR7401			
MODE	E	C	B		E	C	B		E	C	B		E	C	B		E	C	B	
REC	0	13.4	0		0	11.8	0		0	11.8	0		0	5.5	0		0	3.2	0	
PLAY	0	13.4	0		0	11.8	0		0	11.8	0		0	5.5	0		0	3.2	0	
STOP	0	13.4	0		0	11.8	0		0	11.8	0		0	5.5	0		0	3.2	0	
Ref No.	QR7402								QR7501				QR7504							
MODE	1	2	3	4	5	6			E	C	B		E	C	B					
REC	0	0	0	3.0	3.5	0			0	0	2.1		5.0	-1.5	4.8					
PLAY	0	0	0	3.0	3.5	0			0	0	2.1		5.0	-1.5	4.8					
STOP	0	0	0	3.0	3.5	0			0	0	2.1		5.0	-1.5	4.8					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DN D3.3V
DN MP D1.8V
S XMWE2MP
S XMREMP
S XCS5MP
G XMPDK
AD CLK27A7
G MPMUTE H
G XMP4REQ
G XMPIRQ
G XDSCRST
G ENCLRCK
G ENCBCK
G ENCDATA
G MP4DATA
AI ADLRCK2
AI ADBCK2
DN GND
R3666 0
R36001 220
R3665 0
R3667 0
R3611 47K
R3612 0
R3680 0
R3662 0
R3664 0
C3601 0.01
A1
A2
A3
A4
A5
A6
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A8
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A10
A11
A12
A13
A14
A15
IC3604
C0JBAB000175
VCC
OUTY
NC
INA
GND
IC3609
C0JBAF000162
VCC
PR
CLR
Q
CK
D
Q
GND
C3602 0.1
C3603 0.1
D3.3V
D1.8V
FL3604
F1H0J1050018
FL3603
F1H0J1050018
IC3607
C3ABPJ000018
(16bit/16M SDRAM)
RX3664 22X4
RX3662 22X4
RX3659 22X4
RX3657 22X4
RX3656 22X4
RX3654 22X4
RX3663 22X4
RX3661 22X4
RX3660 22X4
RX3658 22X4
RX3655 22X4
RX3653 22X4
R3624 22
R3627 22
R3625 22
R3613 22
R3626 22
R3615 22
R36002 22
R3618 22
MPDT15
MPDT14
MPDT13
MPDT12
MPDT11
MPDT10
MPDT9
MPDT8
MPDQM1
MPCLK
MPCKE
MPAD9
MPAD8
MPAD7
MPAD6
MPAD5
MPAD4
MPAD3
MPDQM3
MPDT31
MPDT30
MPDT29
MPDT28
MPDT27
MPDT26
MPDT25
MPDT24
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DQ15
VSSQ
DQ14
DQ13
VCCQ
DQ12
DQ11
VSSQ
DQ10
DQ9
VCCQ
DQ8
NC
VSS
DQM1
NC
NC
CLK
CKE
A9
A8
A7
A6
A5
A4
A3
DQM3
VSS
NC
DQ31
VCCQ
DQ30
DQ29
VSSQ
DQ28
DQ27
VCCQ
DQ26
DQ25
VSSQ
DQ24
VSS
VCC
DQ0
VCCQ
DQ1
DQ2
VSSQ
DQ3
DQ4
VCCQ
DQ5
DQ6
VSSQ
DQ7
NC
VCC
DQM0
WE
CAS
RAS
CS
NC
BA0
BA1
A10
A0
A1
A2
DQM2
VCC
NC
DQ16
VSSQ
DQ17
DQ18
VCCQ
DQ19
DQ20
VSSQ
DQ21
DQ22
VCCQ
DQ23
VCC
MPDT0
MPDT1
MPDT2
MPDT3
MPDT4
MPDT5
MPDT6
MPDT7
MPDQM0
MPCS
MPCAS
MPRAS
MPWE
MPBA0
MPBA1
MPAD10
MPAD0
MPAD1
MPAD2
MPDQM2
MPDT16
MPDT17
MPDT18
MPDT19
MPDT20
MPDT21
MPDT22
MPDT23
A
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DN:Digital Net Section(Page: F)
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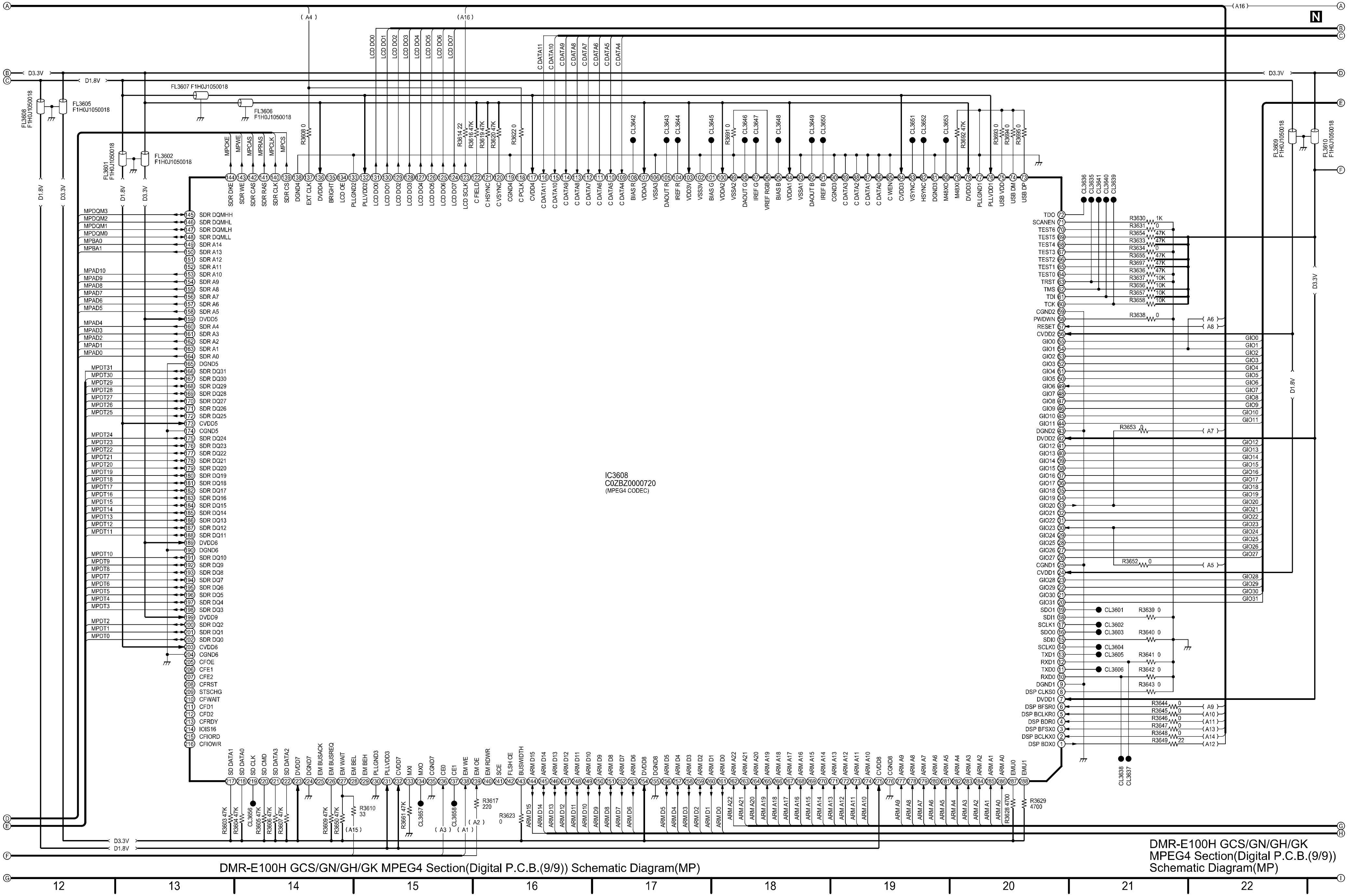
EN:AV Encoder Section(Page: H)
AD:AV Decoder Section(Page: I)
S:System Control Section(Page: J)
G:Glue Section(Page: K)
DV:1394 DV Section(Page: L)
DS:RTSC Section(Page: M)
MP:MPEG4 Section(Page: N)

DMR-E100H GCS/GN/GH/GK
MPEG4 Section(Digital P.C.B.(9/9))
Schematic Diagram(MP)


N
IC3608
C0ZBZ0000720
(MPEG4 CODEC)
D3.3V
D1.8V
FL3607 F1H0J1050018
FL3606 F1H0J1050018
FL3605 F1H0J1050018
FL3608 F1H0J1050018
FL3601 F1H0J1050018
FL3602 F1H0J1050018
FL3609 F1H0J1050018
FL3610 F1H0J1050018
(A4)
(A16)
LCD DO0
LCD DO1
LCD DO2
LCD DO3
LCD DO4
LCD DO5
LCD DO6
LCD DO7
C DATA11
C DATA10
C DATA9
C DATA8
C DATA7
C DATA6
C DATA5
C DATA4
MPDQM3
MPDQM2
MPDQM1
MPDQM0
MPBA0
MPBA1
TDO
SCANEN
TCK
PWDWN
RESET
SDO1
SDI1
SCLK1
SDO0
SDI0
SCLK0
TXD1
RXD1
TXD0
RXD0
DSP CLKS0
DSP BFSR0
DSP BCLKR0
DSP BDR0
DSP BFSX0
DSP BCLKX0
DSP BDX0
GIO0
GIO31
(A5)
(A6)
(A7)
(A8)
(A9)
(A10)
(A11)
(A12)
(A13)
(A14)
(A15)
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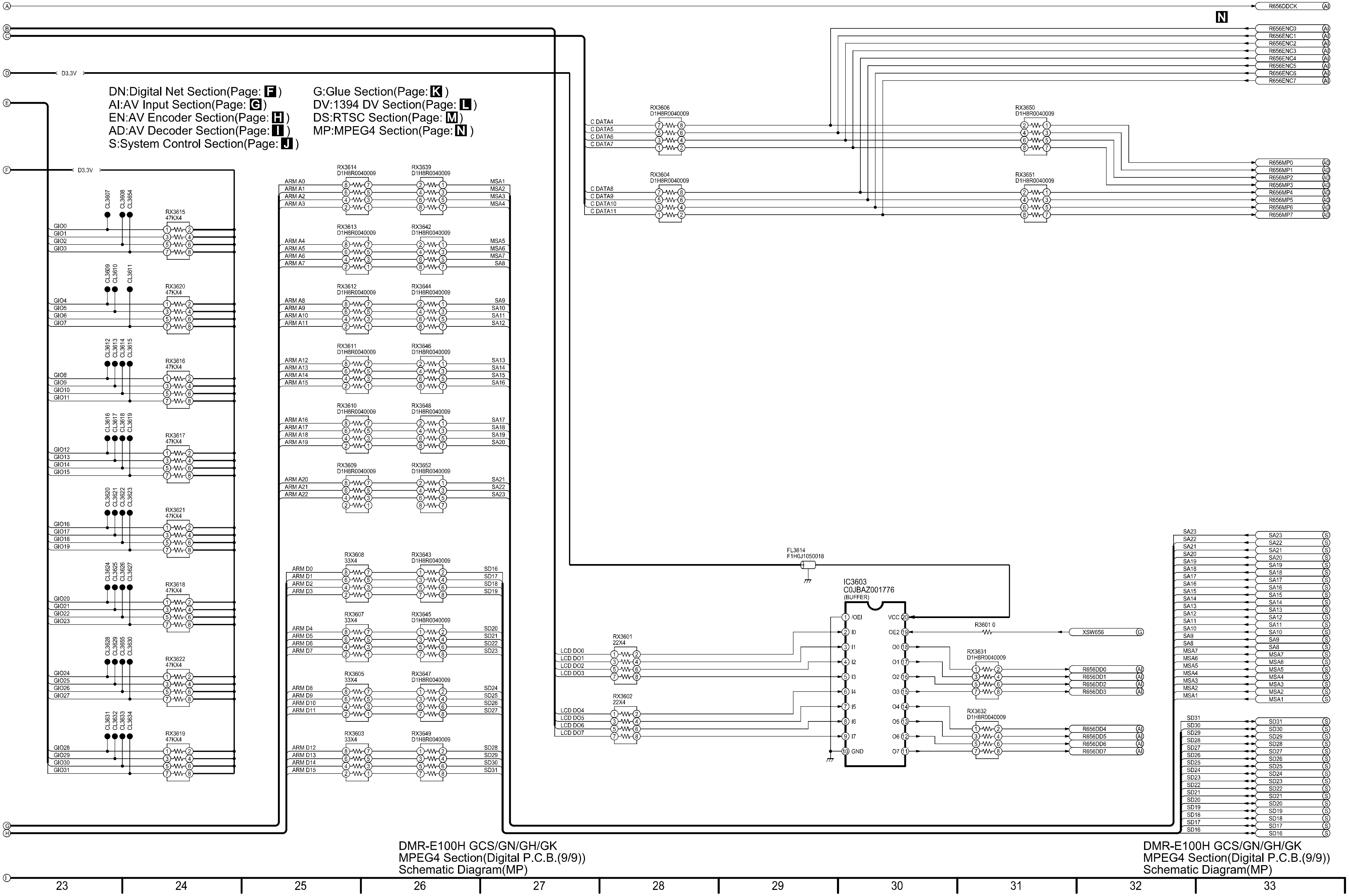
DMR-E100H GCS/GN/GH/GK MPEG4 Section(Digital P.C.B.(9/9)) Schematic Diagram(MP)

DMR-E100H GCS/GN/GH/GK
MPEG4 Section(Digital P.C.B.(9/9))
Schematic Diagram(MP)



A
B
C
D
E
F
G
H
I
D3.3V
R656DDCK
N
R656ENC0
R656ENC1
R656ENC2
R656ENC3
R656ENC4
R656ENC5
R656ENC6
R656ENC7
RX3606
D1H8R0040009
RX3650
D1H8R0040009
C DATA4
C DATA5
C DATA6
C DATA7
RX3604
D1H8R0040009
RX3651
D1H8R0040009
C DATA8
C DATA9
C DATA10
C DATA11
R656MP0
R656MP1
R656MP2
R656MP3
R656MP4
R656MP5
R656MP6
R656MP7
CL3607
CL3608
CL3654
RX3615
47KX4
GIO0
GIO1
GIO2
GIO3
CL3609
CL3610
CL3611
RX3620
47KX4
GIO4
GIO5
GIO6
GIO7
CL3612
CL3613
CL3614
CL3615
RX3616
47KX4
GIO8
GIO9
GIO10
GIO11
CL3616
CL3617
CL3618
CL3619
RX3617
47KX4
GIO12
GIO13
GIO14
GIO15
CL3620
CL3621
CL3622
CL3623
RX3621
47KX4
GIO16
GIO17
GIO18
GIO19
CL3624
CL3625
CL3626
CL3627
RX3618
47KX4
GIO20
GIO21
GIO22
GIO23
CL3628
CL3629
CL3655
CL3630
RX3622
47KX4
GIO24
GIO25
GIO26
GIO27
CL3631
CL3632
CL3633
CL3634
RX3619
47KX4
GIO28
GIO29
GIO30
GIO31
RX3614
D1H8R0040009
RX3639
D1H8R0040009
ARM A0
ARM A1
ARM A2
ARM A3
MSA1
MSA2
MSA3
MSA4
RX3613
D1H8R0040009
RX3642
D1H8R0040009
ARM A4
ARM A5
ARM A6
ARM A7
MSA5
MSA6
MSA7
SA8
RX3612
D1H8R0040009
RX3644
D1H8R0040009
ARM A8
ARM A9
ARM A10
ARM A11
SA9
SA10
SA11
SA12
RX3611
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RX3646
D1H8R0040009
ARM A12
ARM A13
ARM A14
ARM A15
SA13
SA14
SA15
SA16
RX3610
D1H8R0040009
RX3648
D1H8R0040009
ARM A16
ARM A17
ARM A18
ARM A19
SA17
SA18
SA19
SA20
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RX3652
D1H8R0040009
ARM A20
ARM A21
ARM A22
SA21
SA22
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ARM D2
ARM D3
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SD19
RX3607
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RX3645
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ARM D4
ARM D5
ARM D6
ARM D7
SD20
SD21
SD22
SD23
RX3605
33X4
RX3647
D1H8R0040009
ARM D8
ARM D9
ARM D10
ARM D11
SD24
SD25
SD26
SD27
RX3603
33X4
RX3649
D1H8R0040009
ARM D12
ARM D13
ARM D14
ARM D15
SD28
SD29
SD30
SD31
FL3614
F1H0J1050018
IC3603
C0JBAZ001776
(BUFFER)
/OEI
I0
I1
I2
I3
I4
I5
I6
I7
GND
VCC
OE2
O0
O1
O2
O3
O4
O5
O6
O7
R3601 0
XSW656
RX3601
22X4
LCD DO0
LCD DO1
LCD DO2
LCD DO3
RX3602
22X4
LCD DO4
LCD DO5
LCD DO6
LCD DO7
RX3631
D1H8R0040009
R656DD0
R656DD1
R656DD2
R656DD3
RX3632
D1H8R0040009
R656DD4
R656DD5
R656DD6
R656DD7
SA23
SA22
SA21
SA20
SA19
SA18
SA17
SA16
SA15
SA14
SA13
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SA11
SA10
SA9
SA8
MSA7
MSA6
MSA5
MSA4
MSA3
MSA2
MSA1
SD31
SD30
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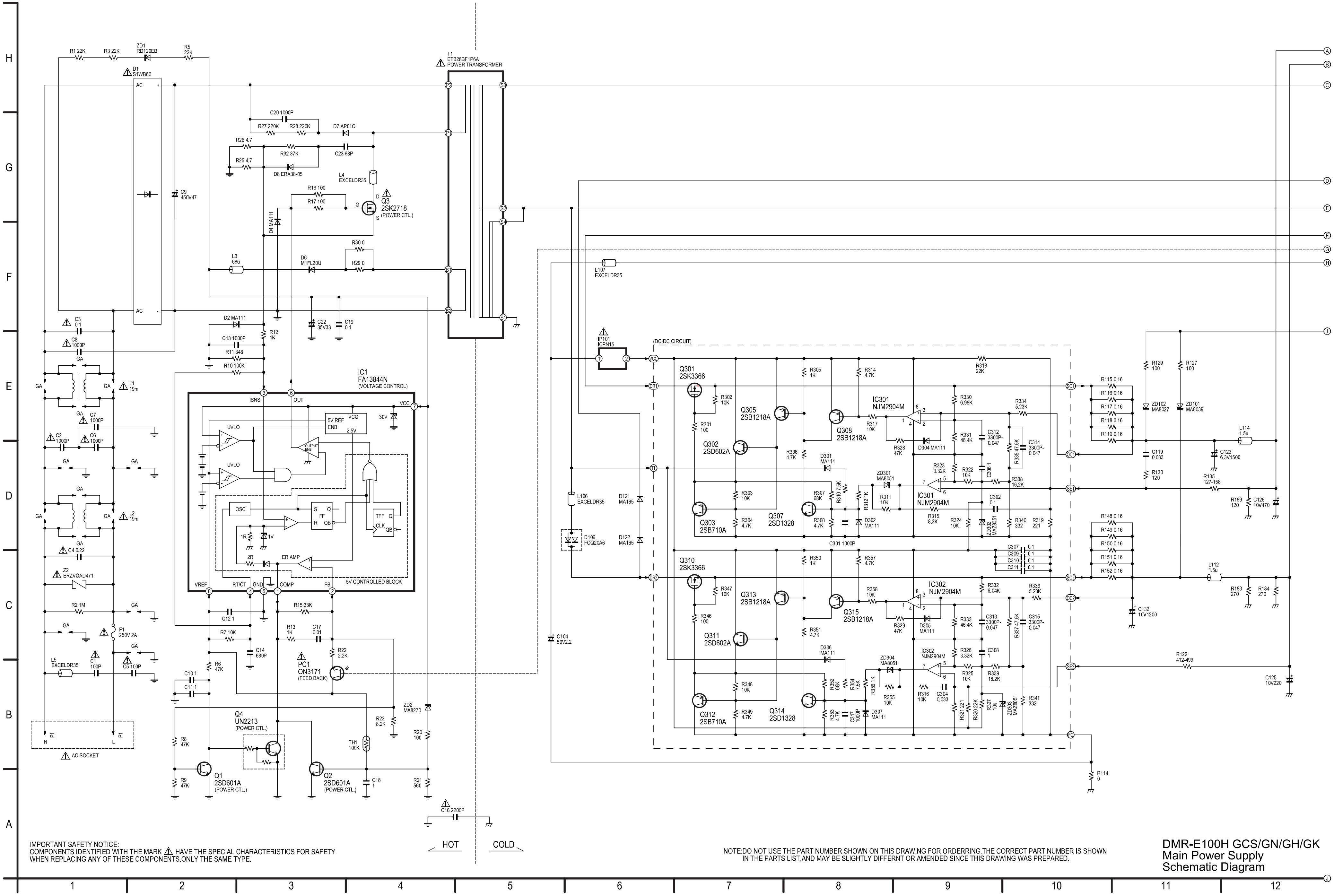
DMR-E100H GCS/GN/GH/GK
MPEG4 Section(Digital P.C.B.(9/9))
Schematic Diagram(MP)

DMR-E100H GCS/GN/GH/GK
MPEG4 Section(Digital P.C.B.(9/9))
Schematic Diagram(MP)


H
G
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12
R1 22K
R3 22K
ZD1 RD120EB
R5 22K
D1 S1WB60
AC
C9 450V47
T1 ETB28BF1P6A POWER TRANSFORMER
C20 1000P
R27 220K
R28 220K
D7 AP01C
R26 4.7
R32 37K
C23 68P
R25 4.7
D8 ERA38-05
L4 EXCELDR35
R16 100
R17 100
Q3 2SK2718 (POWER CTL.)
D4 MA111
L3 68u
D6 M1FL20U
R30 0
R29 0
C22 35V33
C19 0.1
C3 0.1
C8 1000P
D2 MA111
R12 1K
C13 1000P
R11 348
R10 100K
L1 19m
IC1 FA13844N (VOLTAGE CONTROL)
ISNS
OUT
VCC
UVLO
5V REF
ENB
2.5V
30V
OSC
FF
TFF
ER AMP
5V CONTROLLED BLOCK
VREF
RT/CT
GND
COMP
FB
C7 1000P
C2 1000P
C6 1000P
L2 19m
C4 0.22
Z2 ERZVGAD471
R2 1M
F1 250V 2A
L5 EXCELDR35
C1 100P
C5 100P
AC SOCKET
C12 1
R15 33K
R7 10K
R13 1K
C17 0.01
C14 680P
R22 2.2K
PC1 ON3171 (FEED BACK)
R6 47K
C10 1
C11 1
ZD2 MA8270
R23 8.2K
R20 100
Q4 UN2213 (POWER CTL.)
TH1 100K
R8 47K
R9 47K
Q1 2SD601A (POWER CTL.)
Q2 2SD601A (POWER CTL.)
C18 1
R21 560
C16 2200P
HOT
COLD
L107 EXCELDR35
IP101 ICPN15
(DC-DC CIRCUIT)
Q301 2SK3366
R302 10K
R301 100
Q305 2SB1218A
Q302 2SD602A
R305 1K
R314 4.7K
IC301 NJM2904M
Q308 2SB1218A
R318 22K
R330 6.98K
R334 5.23K
R317 10K
R328 47K
D304 MA111
R331 46.4K
C312 3300P-0.047
C314 3300P-0.047
R306 4.7K
D301 MA111
ZD301 MA8051
R323 3.32K
R322 10K
C306 1
R338 16.2K
Q303 2SB710A
R303 10K
R304 4.7K
Q307 2SD1328
R307 68K
R308 4.7K
R310 7.5K
R312 1K
R311 10K
D302 MA111
R315 8.2K
R324 10K
C302 0.1
ZD302 MAZ8051
R340 332
R319 221
C301 1000P
C307 0.1
C309 0.1
C310 0.1
C311 0.1
L106 EXCELDR35
D106 FCQ20A6
D121 MA165
D122 MA165
Q310 2SK3366
R347 10K
R346 100
Q313 2SB1218A
R350 1K
R357 4.7K
R358 10K
IC302 NJM2904M
R332 6.04K
R336 5.23K
Q315 2SB1218A
Q311 2SD602A
R351 4.7K
R329 47K
D305 MA111
R333 46.4K
C313 3300P-0.047
C315 3300P-0.047
R337 47.5K
D306 MA111
ZD304 MA8051
R326 3.32K
C308 1
R325 10K
R339 16.2K
C104 50V2.2
R348 10K
R349 4.7K
Q312 2SB710A
Q314 2SD1328
R352 68K
R353 4.7K
R354 7.5K
R356 1K
C317 1000P
D307 MA111
R355 10K
R316 10K
C304 0.033
R321 221
R320 22K
R327 10K
ZD303 MAZ8051
R341 332
R114 0
R115 0.16
R116 0.16
R117 0.16
R118 0.16
R119 0.16
R129 100
R127 100
ZD102 MA8027
ZD101 MA8039
C119 0.033
R130 120
L114 1.5u
C123 6.3V1500
R135 127-158
R169 120
C126 10V470
R148 0.16
R149 0.16
R150 0.16
R151 0.16
R152 0.16
L112 1.5u
R183 270
R184 270
C132 10V1200
R122 412-499
C125 10V220
A
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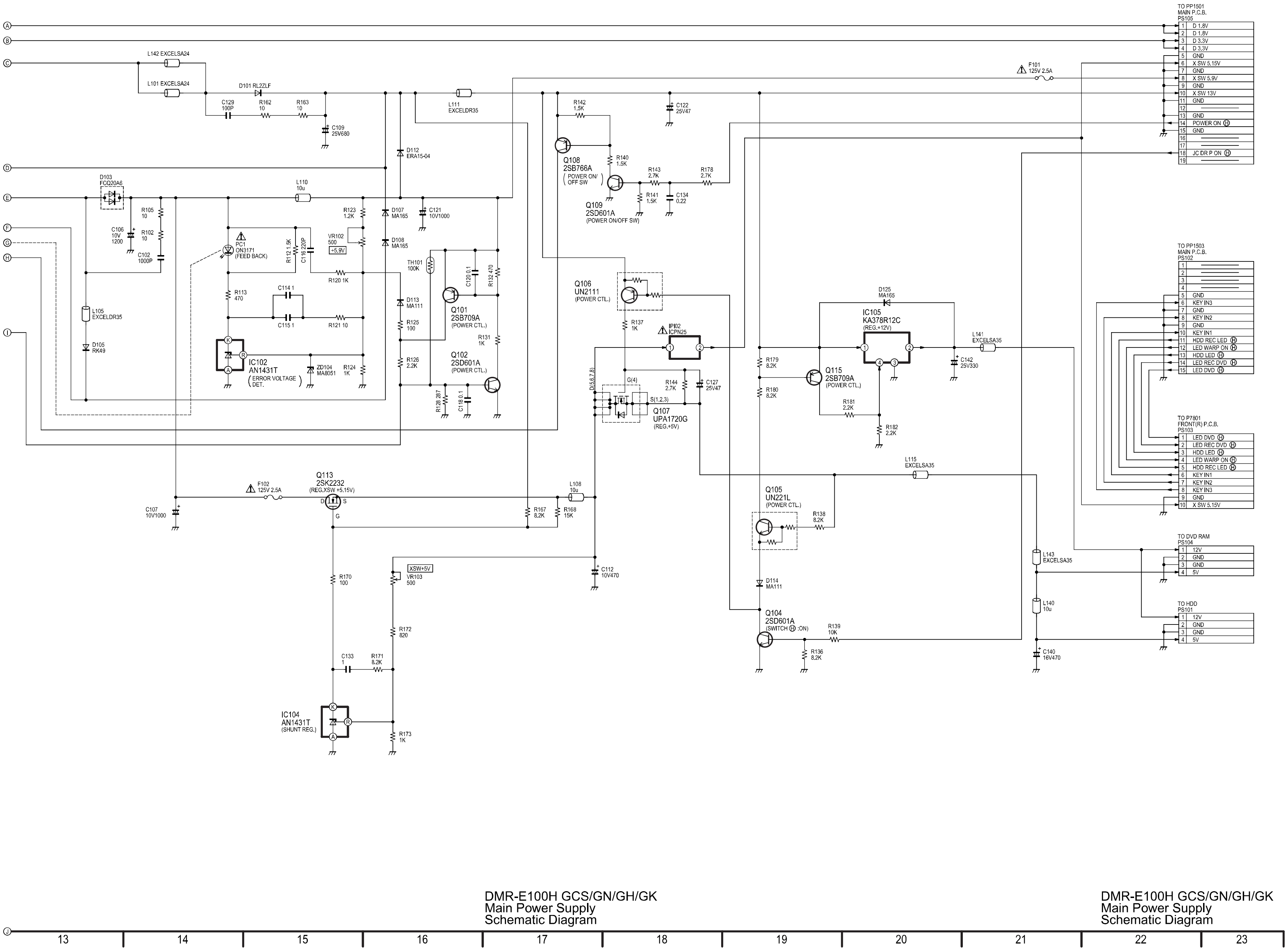
J

IMPORTANT SAFETY NOTICE:
COMPONENTS IDENTIFIED WITH THE MARK ⚠ HAVE THE SPECIAL CHARACTERISTICS FOR SAFETY.
WHEN REPLACING ANY OF THESE COMPONENTS.ONLY THE SAME TYPE.

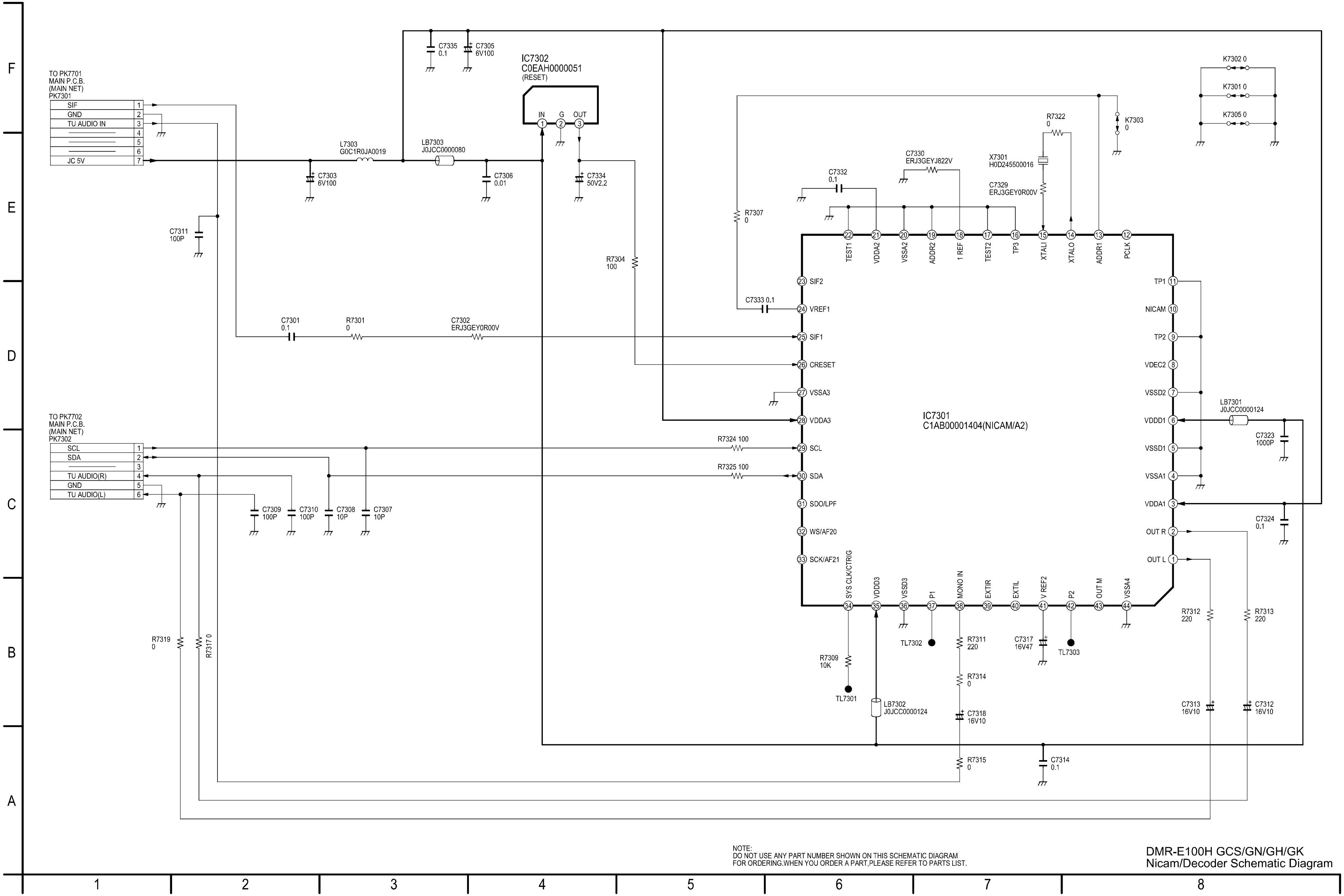
NOTE:DO NOT USE THE PART NUMBER SHOWN ON THIS DRAWING FOR ORDERRING.THE CORRECT PART NUMBER IS SHOWN IN THE PARTS LIST,AND MAY BE SLIGHTLY DIFFERNT OR AMENDED SINCE THIS DRAWING WAS PREPARED.

DMR-E100H GCS/GN/GH/GK
Main Power Supply
Schematic Diagram


A
B
C
D
E
F
G
H
I
J
L142 EXCELSA24
L101 EXCELSA24
D101 RL2ZLF
C129 100P
R162 10
R163 10
C109 25V680
L111 EXCELDR35
D112 ERA15-04
D103 FCQ20A6
L110 10u
R105 10
R102 10
C106 10V 1200
C102 1000P
PC1 ON3171 (FEED BACK)
R112 1.5K
C116 220P
VR102 500
+5.9V
R123 1.2K
D107 MA165
D108 MA165
C121 10V1000
R120 1K
R113 470
C114 1
C115 1
R121 10
TH101 100K
C120 0.1
R132 470
Q101 2SB709A (POWER CTL.)
D113 MA111
R125 100
R131 1K
Q102 2SD601A (POWER CTL.)
R126 2.2K
R128 287
C118 0.1
L105 EXCELDR35
D105 RK49
IC102 AN1431T (ERROR VOLTAGE DET.)
ZD104 MA8051
R124 1K
K
R
A
R142 1.5K
C122 25V47
Q108 2SB766A (POWER ON/ OFF SW)
R140 1.5K
R143 2.7K
R178 2.7K
Q109 2SD601A (POWER ON/OFF SW)
R141 1.5K
C134 0.22
Q106 UN2111 (POWER CTL.)
R137 1K
IP102 ICPN25
1
2
D(5,6,7,8)
G(4)
S(1,2,3)
R144 2.7K
C127 25V47
Q107 UPA1720G (REG.+5V)
F101 125V 2.5A
D125 MA165
IC105 KA378R12C (REG.+12V)
1
2
3
4
R179 8.2K
R180 8.2K
Q115 2SB709A (POWER CTL.)
R181 2.2K
R182 2.2K
C142 25V330
L141 EXCELSA35
L115 EXCELSA35
F102 125V 2.5A
Q113 2SK2232 (REG.XSW +5.15V)
D
S
G
C107 10V1000
L108 10u
R167 8.2K
R168 15K
C112 10V470
XSW+5V
VR103 500
R170 100
R172 820
C133 1
R171 8.2K
IC104 AN1431T (SHUNT REG.)
R173 1K
Q105 UN221L (POWER CTL.)
R138 8.2K
D114 MA111
Q104 2SD601A (SWITCH Ⓗ :ON)
R139 10K
R136 8.2K
L143 EXCELSA35
L140 10u
C140 16V470
TO PP1501 MAIN P.C.B. PS105
1 D 1.8V
2 D 1.8V
3 D 3.3V
4 D 3.3V
5 GND
6 X SW 5.15V
7 GND
8 X SW 5.9V
9 GND
10 X SW 13V
11 GND
12
13 GND
14 POWER ON Ⓗ
15 GND
16
17
18 JC DR P ON Ⓗ
19
TO PP1503 MAIN P.C.B. PS102
1
2
3
4
5 GND
6 KEY IN3
7 GND
8 KEY IN2
9 GND
10 KEY IN1
11 HDD REC LED Ⓗ
12 LED WARP ON Ⓗ
13 HDD LED Ⓗ
14 LED REC DVD Ⓗ
15 LED DVD Ⓗ
TO P7801 FRONT(R) P.C.B. PS103
1 LED DVD Ⓗ
2 LED REC DVD Ⓗ
3 HDD LED Ⓗ
4 LED WARP ON Ⓗ
5 HDD REC LED Ⓗ
6 KEY IN1
7 KEY IN2
8 KEY IN3
9 GND
10 X SW 5.15V
TO DVD RAM PS104
1 12V
2 GND
3 GND
4 5V
TO HDD PS101
1 12V
2 GND
3 GND
4 5V
13
14
15
16
17
18
19
20
21
22
23

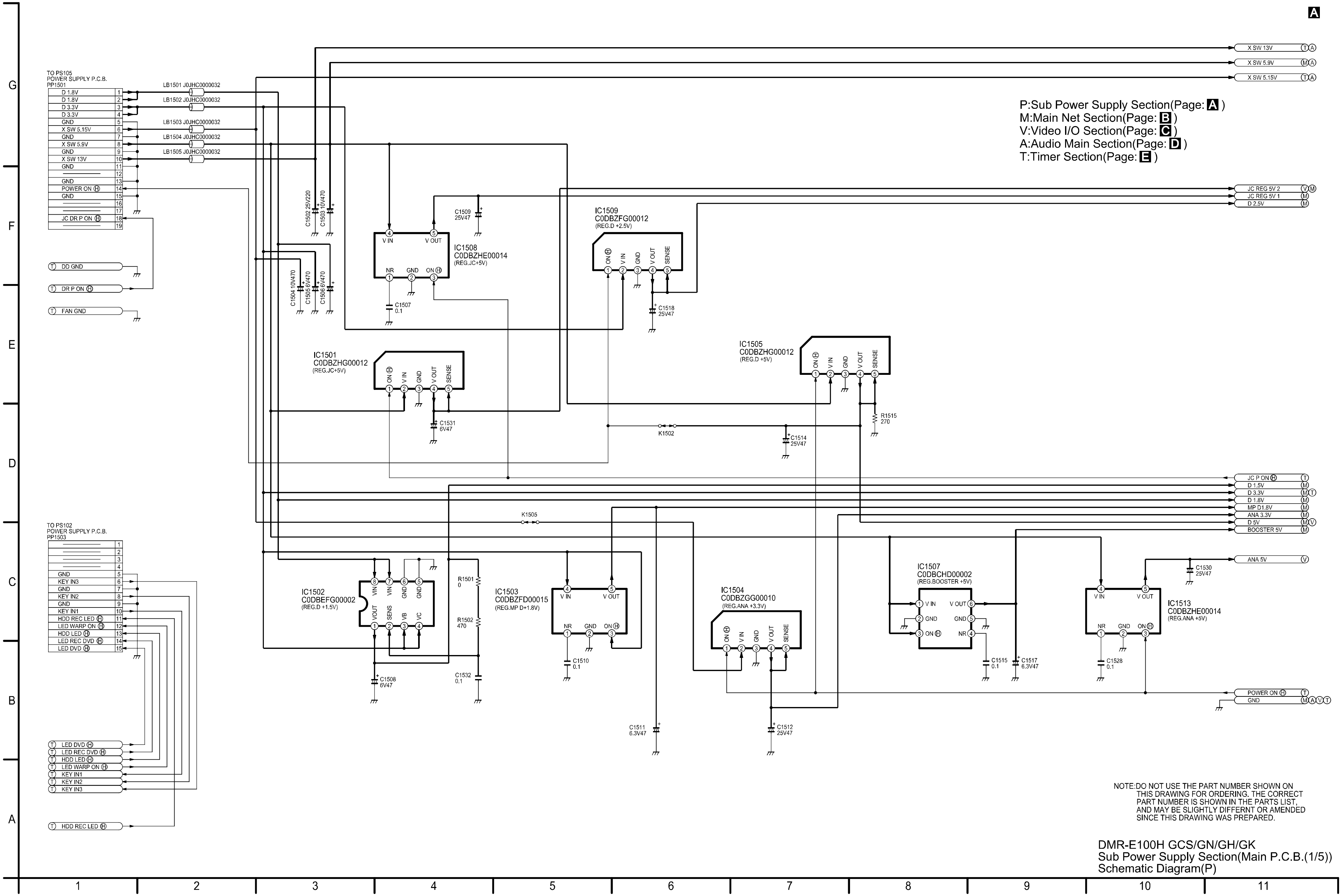
DMR-E100H GCS/GN/GH/GK
Main Power Supply
Schematic Diagram

DMR-E100H GCS/GN/GH/GK
Main Power Supply
Schematic Diagram


F
E
D
C
B
A
1
2
3
4
5
6
7
8
TO PK7701
MAIN P.C.B.
(MAIN NET)
PK7301
SIF 1
GND 2
TU AUDIO IN 3
4
5
6
JC 5V 7
TO PK7702
MAIN P.C.B.
(MAIN NET)
PK7302
SCL 1
SDA 2
3
TU AUDIO(R) 4
GND 5
TU AUDIO(L) 6
C7335 0.1
C7305 6V100
IC7302
C0EAH0000051
(RESET)
IN 1
G 2
OUT 3
L7303 G0C1R0JA0019
LB7303 J0JCC0000080
C7303 6V100
C7306 0.01
C7334 50V2.2
C7311 100P
R7304 100
R7307 0
C7333 0.1
C7301 0.1
R7301 0
C7302 ERJ3GEY0R00V
C7332 0.1
C7330 ERJ3GEYJ822V
X7301 H0D245500016
C7329 ERJ3GEY0R00V
R7322 0
K7303 0
K7302 0
K7301 0
K7305 0
IC7301
C1AB00001404(NICAM/A2)
22 TEST1
21 VDDA2
20 VSSA2
19 ADDR2
18 1 REF
17 TEST2
16 TP3
15 XTALI
14 XTALO
13 ADDR1
12 PCLK
23 SIF2
24 VREF1
25 SIF1
26 CRESET
27 VSSA3
28 VDDA3
29 SCL
30 SDA
31 SDO/LPF
32 WS/AF20
33 SCK/AF21
TP1 11
NICAM 10
TP2 9
VDEC2 8
VSSD2 7
VDDD1 6
VSSD1 5
VSSA1 4
VDDA1 3
OUT R 2
OUT L 1
34 SYS CLK/CTRIG
35 VDDD3
36 VSSD3
37 P1
38 MONO IN
39 EXTIR
40 EXTIL
41 V REF2
42 P2
43 OUT M
44 VSSA4
R7324 100
R7325 100
C7309 100P
C7310 100P
C7308 10P
C7307 10P
LB7301 J0JCC0000124
C7323 1000P
C7324 0.1
R7309 10K
TL7301
LB7302 J0JCC0000124
TL7302
R7311 220
R7314 0
C7318 16V10
R7315 0
C7317 16V47
TL7303
C7314 0.1
R7312 220
R7313 220
C7313 16V10
C7312 16V10
R7319 0
R7317 0

NOTE:
DO NOT USE ANY PART NUMBER SHOWN ON THIS SCHEMATIC DIAGRAM
FOR ORDERING.WHEN YOU ORDER A PART,PLEASE REFER TO PARTS LIST.

DMR-E100H GCS/GN/GH/GK
Nicam/Decoder Schematic Diagram


A
TO PS105
POWER SUPPLY P.C.B.
PP1501
D 1.8V 1
D 1.8V 2
D 3.3V 3
D 3.3V 4
GND 5
X SW 5.15V 6
GND 7
X SW 5.9V 8
GND 9
X SW 13V 10
GND 11
12
GND 13
POWER ON Ⓗ 14
GND 15
16
17
JC DR P ON Ⓗ 18
19
LB1501 J0JHC0000032
LB1502 J0JHC0000032
LB1503 J0JHC0000032
LB1504 J0JHC0000032
LB1505 J0JHC0000032
Ⓣ DD GND
Ⓣ DR P ON Ⓗ
Ⓣ FAN GND
C1502 25V220
C1503 10V470
C1504 10V470
C1505 6V470
C1506 6V470
C1509 25V47
IC1508
C0DBZHE00014
(REG.JC+5V)
V IN
V OUT
NR
GND
ON Ⓗ
C1507 0.1
IC1509
C0DBZFG00012
(REG.D +2.5V)
ON Ⓗ
V IN
GND
V OUT
SENSE
C1518 25V47
IC1501
C0DBZHG00012
(REG.JC+5V)
C1531 6V47
IC1505
C0DBZHG00012
(REG.D +5V)
R1515 270
K1502
C1514 25V47
X SW 13V ⓉⒶ
X SW 5.9V ⓂⒶ
X SW 5.15V ⓉⒶ
JC REG 5V 2 ⓋⓂ
JC REG 5V 1 Ⓜ
D 2.5V Ⓜ
JC P ON Ⓗ Ⓣ
D 1.5V Ⓜ
D 3.3V ⓂⓉ
D 1.8V Ⓜ
MP D1.8V Ⓜ
ANA 3.3V Ⓜ
D 5V ⓂⓋ
BOOSTER 5V Ⓜ
ANA 5V Ⓥ
POWER ON Ⓗ Ⓣ
GND ⓂⒶⓋⓉ
K1505
TO PS102
POWER SUPPLY P.C.B.
PP1503
1
2
3
4
GND 5
KEY IN3 6
GND 7
KEY IN2 8
GND 9
KEY IN1 10
HDD REC LED Ⓗ 11
LED WARP ON Ⓗ 12
HDD LED Ⓗ 13
LED REC DVD Ⓗ 14
LED DVD Ⓗ 15
IC1502
C0DBEFG00002
(REG.D +1.5V)
VIN
VIN
GND
GND
VOUT
SENS
VB
VC
C1508 6V47
R1501 0
R1502 470
C1532 0.1
IC1503
C0DBZFD00015
(REG.MP D+1.8V)
C1510 0.1
C1511 6.3V47
IC1504
C0DBZGG00010
(REG.ANA +3.3V)
C1512 25V47
IC1507
C0DBCHD00002
(REG.BOOSTER +5V)
V IN
GND
ON Ⓗ
V OUT
GND
NR
C1515 0.1
C1517 6.3V47
IC1513
C0DBZHE00014
(REG.ANA +5V)
C1528 0.1
C1530 25V47
Ⓣ LED DVD Ⓗ
Ⓣ LED REC DVD Ⓗ
Ⓣ HDD LED Ⓗ
Ⓣ LED WARP ON Ⓗ
Ⓣ KEY IN1
Ⓣ KEY IN2
Ⓣ KEY IN3
Ⓣ HDD REC LED Ⓗ
G
F
E
D
C
B
A
1
2
3
4
5
6
7
8
9
10
11

P:Sub Power Supply Section(Page: A)
M:Main Net Section(Page: B)
V:Video I/O Section(Page: C)
A:Audio Main Section(Page: D)
T:Timer Section(Page: E)

NOTE:DO NOT USE THE PART NUMBER SHOWN ON THIS DRAWING FOR ORDERING. THE CORRECT PART NUMBER IS SHOWN IN THE PARTS LIST, AND MAY BE SLIGHTLY DIFFERNT OR AMENDED SINCE THIS DRAWING WAS PREPARED.

DMR-E100H GCS/GN/GH/GK
Sub Power Supply Section(Main P.C.B.(1/5))
Schematic Diagram(P)

PSC 1. X SW+5.15V

Ref. No.	Pin. No.	Schematic Name
IC7501	24,98	Timer (Main)
IC7502	5	
IC7504	8	
IC7505	2	

PSC 2. JC REG.+5V

Ref. No.	Pin. No.	Schematic Name
IC3003	2,15,27	Video I/O (Main)
	41,45	
IC7405	8	Main Net (Main)
T 7402	25	Main Net (Main)

PSC 3. REG.ANA+5V

Ref. No.	Pin. No.	Schematic Name
IC3005	6,11	Video I/O (Main)
IC4901	5	

PSC 4. REG.AU+9V

Ref. No.	Pin. No.	Schematic Name
IC4002	16	Audio Main (Main)
IC4003	8	
IC4009	8	
IC4012	8	

PSC 5. REG.D+5V

Ref. No.	Pin. No.	Schematic Name
IC3002	22	Video I/O (Main)
IC6802	8	PC Card
IC6803	7,18,31,42	
IC6804	7,18	

PSC 6. X SW+13V

Ref. No.	Pin. No.	Schematic Name
IC7507	8	Timer (Main)

PSC 8. D+1.8V

Ref. No.	Pin. No.	Schematic Name
IC3203	39,64,88	AV Input (Digital)
	109,131,156	
IC3402	7,19,32,44	AV Encoder (Digital)
	59,71,84,96	
	111,123,136	
	148,163,175	
	188,198	
IC37001	17,47,64,81	1394/DV (Digital)
	92,126,133	
	146,179,212	

PSC 9. REG.D+1.5V

Ref. No.	Pin. No.	Schematic Name
IC50003	12,30,48	AV Decoder (Digital)
	69,98,127	
	135,172,186	

PSC 10. D+3.3V

Ref. No.	Pin. No.	Schematic Name
IC3201	1,7,13,25	AV Input (Digital)
	38,44	
IC3203	31,38,45	
	52,58,65	
	71,78,84	
	91,108,119	
	130,137,145	
	159,166,179	
IC3204	5	
IC3205	5	
IC3206	5	
IC4404	5	
IC3401	1,3,9,15,29	AV Encoder (Digital)
	35,41,43,49	
	55,75,81	
IC3402	4,14,22,34	
	46,50,57,66	
	75,83,91	
	100,110,118	
	126,132,139	
	145,152,160	
	167,172,181	
	185,192,199	
	202,205	
IC3501	1,3,9,14,27	RTSC (Digital)
	43,49	
IC3502	1,3,9,14,27	
	43,49	
IC3503	7,18,33,48	
	63,75,81,93	
	104,114,128	
	142,150,157	
	168,177,187	
	198,206,213	
	216,222,229	
	237,241,245	
	246,257,268	
	280,287	
IC3603	20	MPEG4 (Digital)
IC3604	5	
IC3607	1,3,9,15,29	
	35,41,43,49	
	55,75,81	
IC3608	7,42,78,94	
	100,103,107	
	136,159,189	
	199,223,254	
IC3609	8	
IC37001	10,19,29,37	1394 DV (Digital)
	43,50,56,69	
	76,87,97	
	108,118,132	
	141,153,171	
	183,190,197	
	207,216	
IC37002	25,26,61,62	
IC37006	19	
IC50001	1,11,14,19	AV Decoder (Digital)
IC50002	1,3,9,14	
	27,43,49	
IC50003	5,15,26,39	
	52,58,66,75	
	89,103,131	
	144,152,157	
	165,175,184	
	194,203	
IC50004	1,3,9,14	
	27,43,49	
IC50005	5	
IC50006	5	
IC50009	20	
IC50013	5	
IC50014	14	
IC6001	5	Syscon (Digital)
IC6002	1,3,9,14	
	27,43,49	
IC6003	1,3,9,14,27	
	43,49	
IC6004	2,20,33,43	
	54,74,110	
	121,132,152	
	164,170,183	
	202	
IC6006	23	
IC6007	7,18,31,42	
IC6701	29,57,82	GLUE (Digital)
	103,134,161	
	184,204,206	
IC6702	5	
IC6704	12,37	
IC6801	8	PC Card
IC6804	31,42	
IC6805	8	
IC6806	14	
IC6810	8	

PSC 11. REG.SD+1.8V

Ref. No.	Pin. No.	Schematic Name
IC6004	21,55,75	Syscon (Digital)
	111,122,153	
	184,203	

PSC 12. REG.MP D+1.8V

Ref. No.	Pin. No.	Schematic Name
IC3608	24,56,76,84	MPEG4 (Digital)
	117,132,173	
	203,231,232	
	275	

PSC 13. REG.D+2.5V

Ref. No.	Pin. No.	Schematic Name
IC3503	14,30,59,91	RTSC (Digital)
	124,149,184	
	199,227,260	
	281	

PSC 14. REG.ANA+3.3V

Ref. No.	Pin. No.	Schematic Name
IC3203	2,11,12,21	AV Input (Digital)
	26,30	
IC3402	30	AV Encoder (Digital)
IC37002	30,31,42,51	1394 DV (Digital)
	52,56	
IC50003	105,112,118	AV Decoder (Digital)

PSC 15. REG.DAC+3.3V

Ref. No.	Pin. No.	Schematic Name
IC4403	14	AV Input (Digital)
IC50010	5	AV Decoder (Digital)

PSC 16. REG.AU+5V

Ref. No.	Pin. No.	Schematic Name
IC4402	8	AV Input (Digital)
IC4403	5	
IC50010	6	AV Decoder (Digital)

PSC 17. REG.D+3V

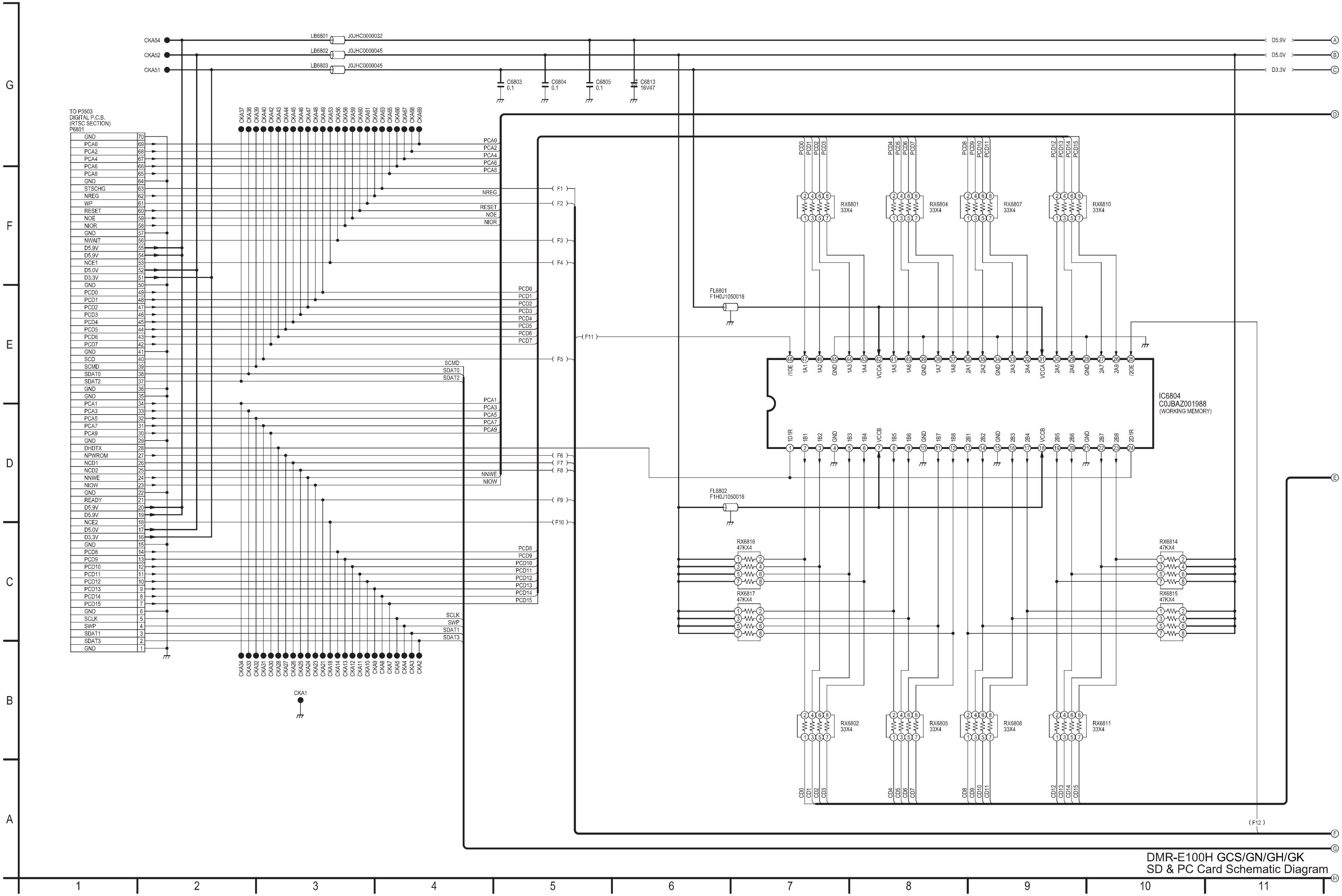
Ref. No.	Pin. No.	Schematic Name
IC37003	12,31,43	1394 DV (Digital)
IC37008	5	
IC37011	5	

PSC 18. REG.D+3.3V

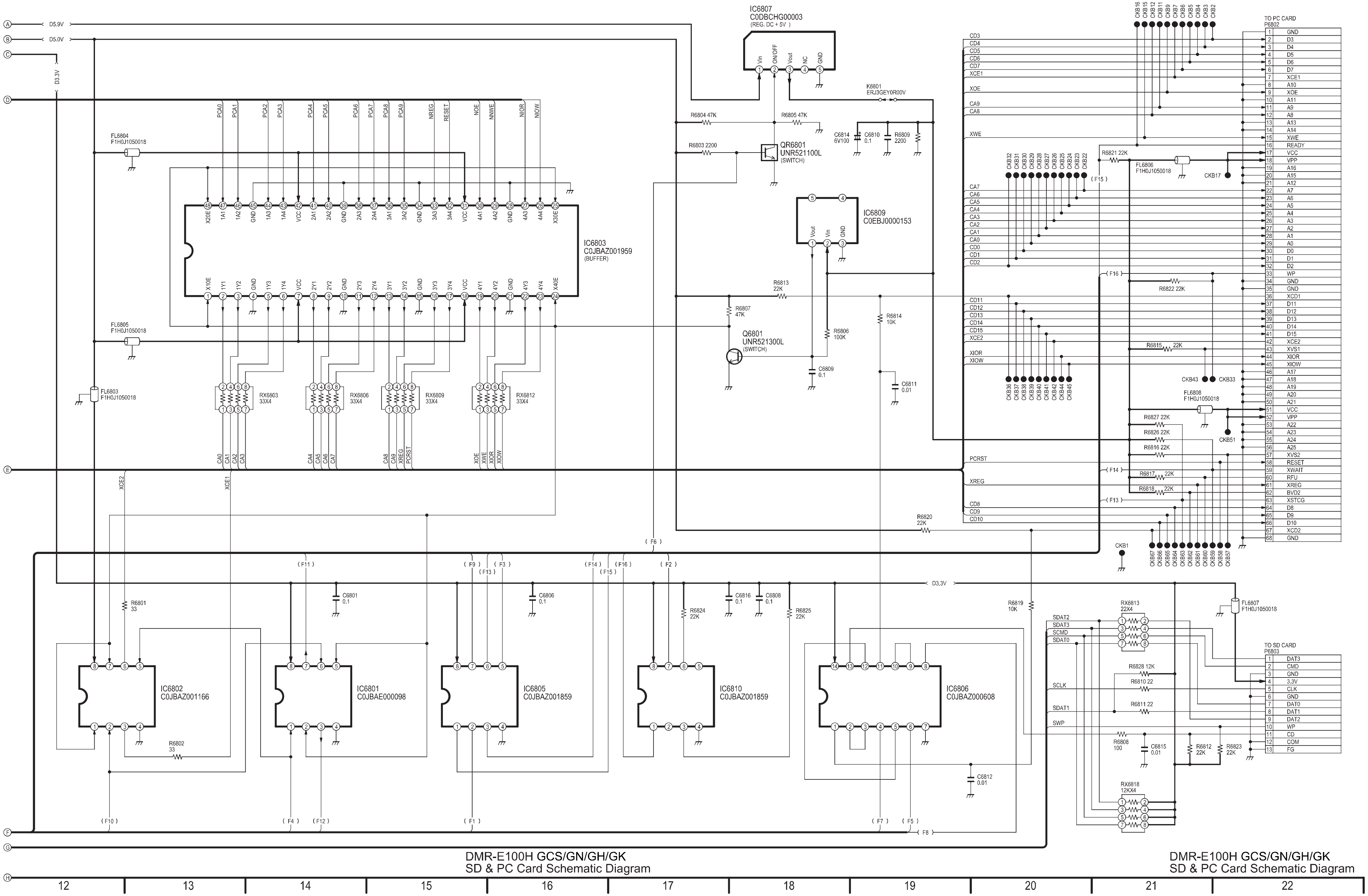
Ref. No.	Pin. No.	Schematic Name
IC50001	5,6	AV Decoder (Digital)

PSC 19. REG.DC+5V

Ref. No.	Pin. No.	Schematic Name
IC6809	2	PC Card


G
F
E
D
C
B
A
1
2
3
4
5
6
7
8
9
10
11
CKA54
CKA52
CKA51
LB6801
J0JHC0000032
LB6802
J0JHC0000045
LB6803
J0JHC0000045
C6803
0.1
C6804
0.1
C6805
0.1
C6813
16V47
D5.9V
D5.0V
D3.3V
TO P3503
DIGITAL P.C.B.
(RTSC SECTION)
P6801
GND 70
PCA0 69
PCA2 68
PCA4 67
PCA6 66
PCA8 65
GND 64
STSCHG 63
NREG 62
WP 61
RESET 60
NOE 59
NIOR 58
GND 57
NWAIT 56
D5.9V 55
D5.9V 54
NCE1 53
D5.0V 52
D3.3V 51
GND 50
PCD0 49
PCD1 48
PCD2 47
PCD3 46
PCD4 45
PCD5 44
PCD6 43
PCD7 42
GND 41
SCD 40
SCMD 39
SDAT0 38
SDAT2 37
GND 36
GND 35
PCA1 34
PCA3 33
PCA5 32
PCA7 31
PCA9 30
GND 29
DHDTX 28
NPWROM 27
NCD1 26
NCD2 25
NNWE 24
NIOW 23
GND 22
READY 21
D5.9V 20
D5.9V 19
NCE2 18
D5.0V 17
D3.3V 16
GND 15
PCD8 14
PCD9 13
PCD10 12
PCD11 11
PCD12 10
PCD13 9
PCD14 8
PCD15 7
GND 6
SCLK 5
SWP 4
SDAT1 3
SDAT3 2
GND 1
CKA37 CKA38 CKA39 CKA40 CKA42 CKA43 CKA44 CKA45 CKA46 CKA47 CKA48 CKA49 CKA53 CKA56 CKA58 CKA59 CKA60 CKA61 CKA62 CKA63 CKA65 CKA66 CKA67 CKA68 CKA69
CKA34 CKA33 CKA32 CKA31 CKA30 CKA28 CKA27 CKA26 CKA25 CKA24 CKA23 CKA21 CKA18 CKA14 CKA13 CKA12 CKA11 CKA10 CKA9 CKA8 CKA7 CKA5 CKA4 CKA3 CKA2
CKA1
PCA0
PCA2
PCA4
PCA6
PCA8
NREG
RESET
NOE
NIOR
PCD0
PCD1
PCD2
PCD3
PCD4
PCD5
PCD6
PCD7
SCMD
SDAT0
SDAT2
PCA1
PCA3
PCA5
PCA7
PCA9
NNWE
NIOW
PCD8
PCD9
PCD10
PCD11
PCD12
PCD13
PCD14
PCD15
SCLK
SWP
SDAT1
SDAT3
F1
F2
F3
F4
F5
F6
F7
F8
F9
F10
F11
F12
PCD0 PCD1 PCD2 PCD3
PCD4 PCD5 PCD6 PCD7
PCD8 PCD9 PCD10 PCD11
PCD12 PCD13 PCD14 PCD15
RX6801
33X4
RX6804
33X4
RX6807
33X4
RX6810
33X4
FL6801
F1H0J1050018
FL6802
F1H0J1050018
IC6804
C0JBAZ001988
(WORKING MEMORY)
/1OE 1A1 1A2 GND 1A3 1A4 VCCA 1A5 1A6 GND 1A7 1A8 2A1 2A2 GND 2A3 2A4 VCCA 2A5 2A6 GND 2A7 2A8 /2OE
48 47 46 45 44 43 42 41 40 39 38 37 36 35 34 33 32 31 30 29 28 27 26 25
1DIR 1B1 1B2 GND 1B3 1B4 VCCB 1B5 1B6 GND 1B7 1B8 2B1 2B2 GND 2B3 2B4 VCCB 2B5 2B6 GND 2B7 2B8 2DIR
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24
RX6816
47KX4
RX6817
47KX4
RX6814
47KX4
RX6815
47KX4
RX6802
33X4
RX6805
33X4
RX6808
33X4
RX6811
33X4
CD0 CD1 CD2 CD3
CD4 CD5 CD6 CD7
CD8 CD9 CD10 CD11
CD12 CD13 CD14 CD15
A
B
C
D
E
F
G
H

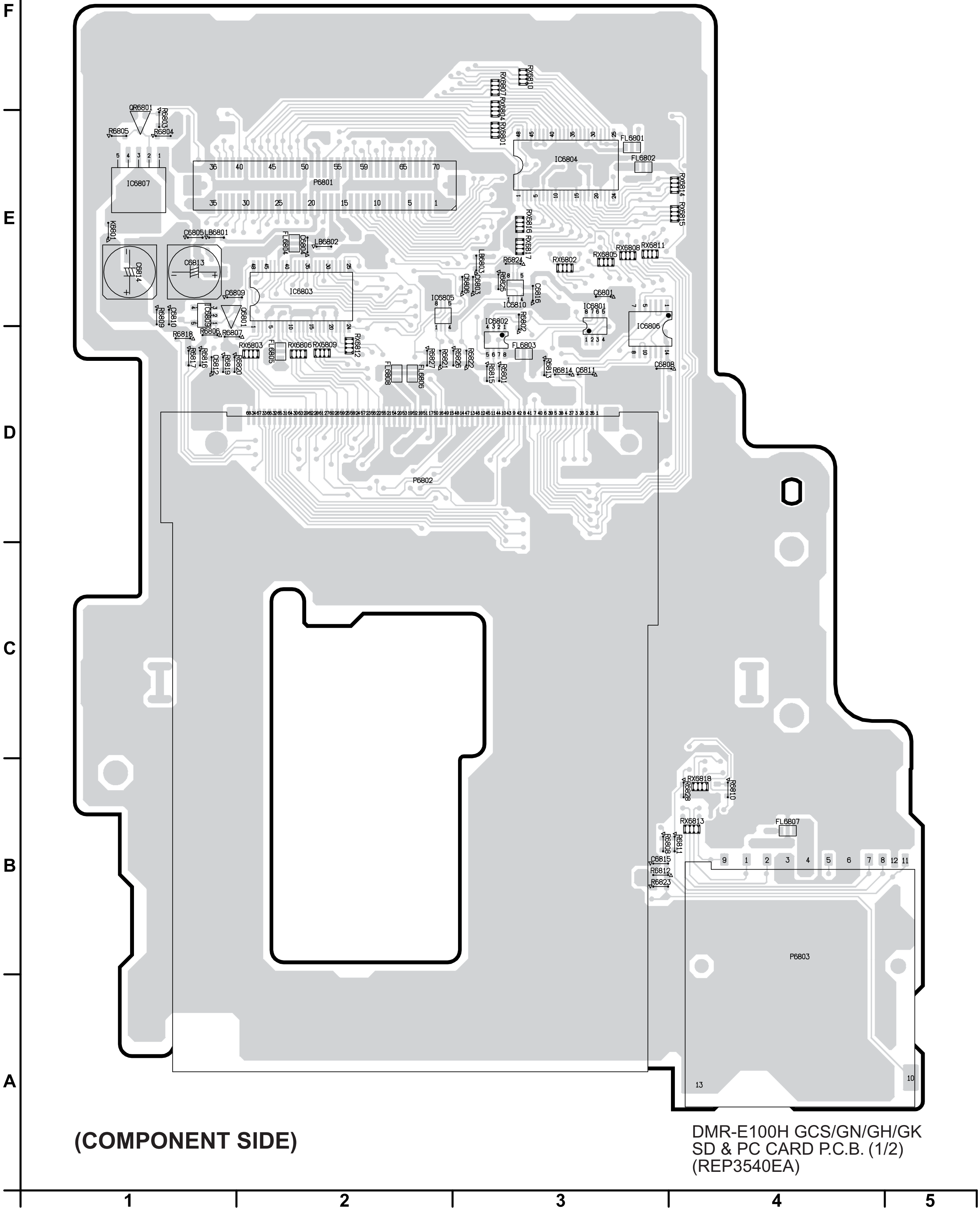
DMR-E100H GCS/GN/GH/GK
SD & PC Card Schematic Diagram


A D5.9V
B D5.0V
C D3.3V
D
E
F
G
H
IC6807
C0DBCHG00003
(REG. DC + 5V)
Vin
ON/OFF
Vout
NC
GND
K6801
ERJ3GEY0R00V
R6804 47K
R6805 47K
R6803 2200
QR6801
UNR521100L
(SWITCH)
C6814 6V100
C6810 0.1
R6809 2200
IC6809
C0EBJ0000153
IC6803
C0JBAZ001959
(BUFFER)
FL6804
F1H0J1050018
FL6805
F1H0J1050018
FL6803
F1H0J1050018
PCA0
PCA1
PCA2
PCA3
PCA4
PCA5
PCA6
PCA7
PCA8
PCA9
NREG
RESET
NOE
NNWE
NIOR
NIOW
X10E
1A1
1A2
GND
1A3
1A4
VCC
2A1
2A2
2A3
2A4
3A1
3A2
3A3
3A4
4A1
4A2
4A3
4A4
X40E
1Y1
1Y2
1Y3
1Y4
2Y1
2Y2
2Y3
2Y4
3Y1
3Y2
3Y3
3Y4
4Y1
4Y2
4Y3
4Y4
R6813 22K
R6807 47K
Q6801
UNR521300L
(SWITCH)
R6806 100K
C6809 0.1
R6814 10K
C6811 0.01
RX6803 33X4
RX6806 33X4
RX6809 33X4
RX6812 33X4
CA0
CA1
CA2
CA3
CA4
CA5
CA6
CA7
CA8
CA9
XREG
PCRST
XOE
XWE
XIOR
XIOW
XCE2
XCE1
F6
F11
F9
F13
F3
F14
F15
F16
F2
F10
F4
F12
F1
F7
F5
F8
D3.3V
C6801 0.1
C6806 0.1
C6816 0.1
C6808 0.1
R6801 33
R6802 33
R6824 22K
R6825 22K
R6819 10K
C6812 0.01
IC6802
C0JBAZ001166
IC6801
C0JBAE000098
IC6805
C0JBAZ001859
IC6810
C0JBAZ001859
IC6806
C0JBAZ000608
CD3
CD4
CD5
CD6
CD7
XCE1
XOE
CA9
CA8
XWE
CA7
CA6
CA5
CA4
CA3
CA2
CA1
CA0
CD0
CD1
CD2
CD11
CD12
CD13
CD14
CD15
XCE2
XIOR
XIOW
PCRST
XREG
CD8
CD9
CD10
CKB16 CKB15 CKB12 CKB11 CKB9 CKB7 CKB6 CKB5 CKB4 CKB3 CKB2
CKB32 CKB31 CKB30 CKB29 CKB28 CKB27 CKB26 CKB25 CKB24 CKB23 CKB22
CKB36 CKB37 CKB38 CKB39 CKB40 CKB41 CKB42 CKB44 CKB45
CKB43 CKB33
CKB17
CKB51
CKB1
CKB67 CKB66 CKB65 CKB64 CKB63 CKB62 CKB61 CKB60 CKB59 CKB58 CKB57
R6821 22K
FL6806
F1H0J1050018
R6822 22K
R6815 22K
FL6808
F1H0J1050018
R6827 22K
R6826 22K
R6816 22K
R6817 22K
R6818 22K
R6820 22K
TO PC CARD
P6802
1 GND
2 D3
3 D4
4 D5
5 D6
6 D7
7 XCE1
8 A10
9 XOE
10 A11
11 A9
12 A8
13 A13
14 A14
15 XWE
16 READY
17 VCC
18 VPP
19 A16
20 A15
21 A12
22 A7
23 A6
24 A5
25 A4
26 A3
27 A2
28 A1
29 A0
30 D0
31 D1
32 D2
33 WP
34 GND
35 GND
36 XCD1
37 D11
38 D12
39 D13
40 D14
41 D15
42 XCE2
43 XVS1
44 XIOR
45 XIOW
46 A17
47 A18
48 A19
49 A20
50 A21
51 VCC
52 VPP
53 A22
54 A23
55 A24
56 A25
57 XVS2
58 RESET
59 XWAIT
60 RFU
61 XREG
62 BVD2
63 XSTCG
64 D8
65 D9
66 D10
67 XCD2
68 GND
RX6813 22X4
FL6807
F1H0J1050018
SDAT2
SDAT3
SCMD
SDAT0
SCLK
SDAT1
SWP
R6828 12K
R6810 22
R6811 22
R6808 100
C6815 0.01
R6812 22K
R6823 22K
RX6818 12KX4
TO SD CARD
P6803
1 DAT3
2 CMD
3 GND
4 3.3V
5 CLK
6 GND
7 DAT0
8 DAT1
9 DAT2
10 WP
11 CD
12 COM
13 FG
12
13
14
15
16
17
18
19
20
21
22

DMR-E100H GCS/GN/GH/GK
SD & PC Card Schematic Diagram

DMR-E100H GCS/GN/GH/GK
SD & PC Card Schematic Diagram

SD & PC CARD P.C.B. (1/2)


F
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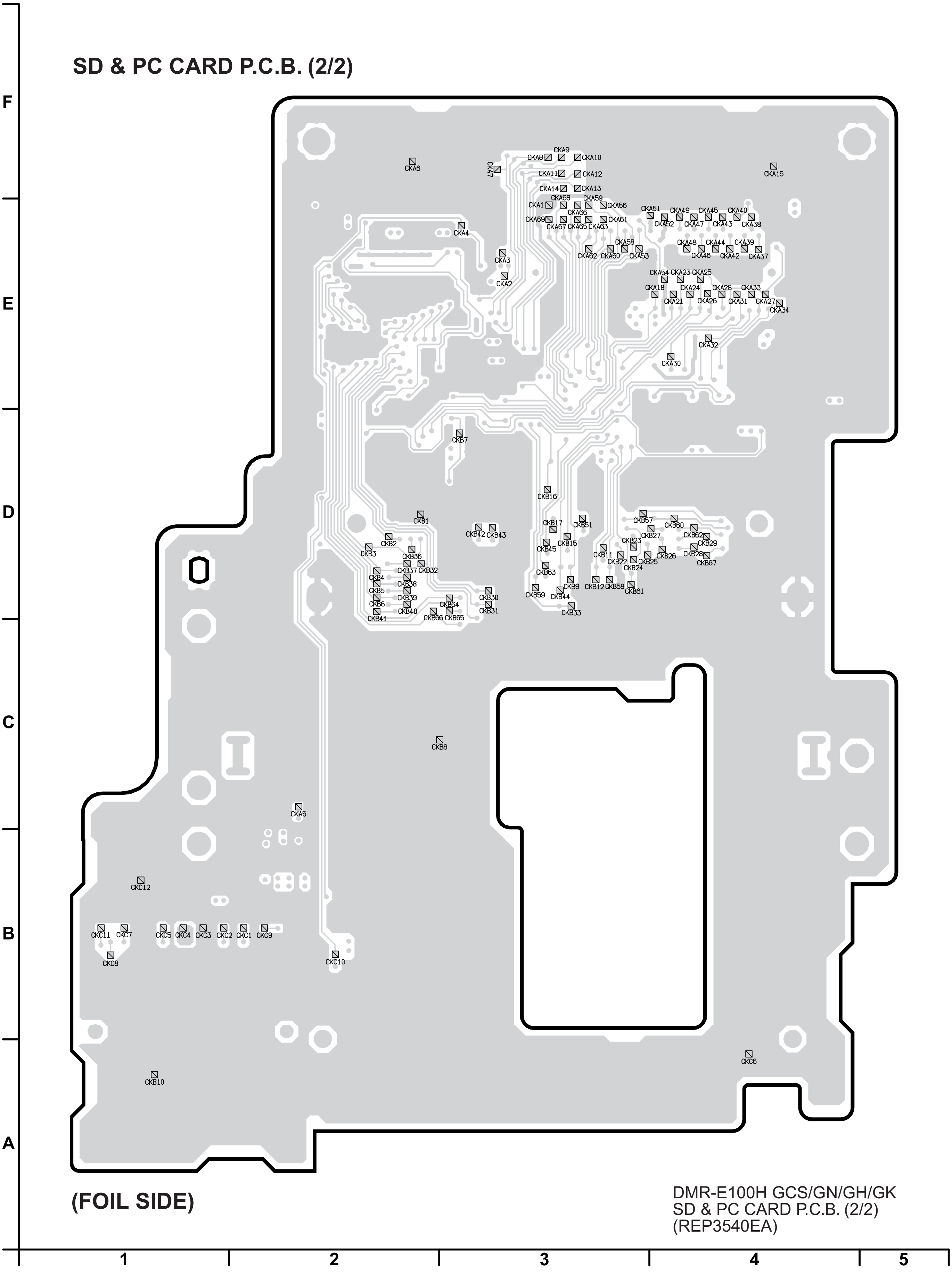
P6801
P6802
P6803
IC6801
IC6802
IC6803
IC6804
IC6805
IC6806
IC6807
IC6810
QR6801
Q6801
K6801
C6801
C6805
C6808
C6809
C6810
C6811
C6812
C6813
C6814
C6815
C6816
LB6801
LB6802
LB6803
FL6801
FL6802
FL6803
FL6804
FL6805
FL6806
FL6807
FL6808
RX6801
RX6802
RX6803
RX6804
RX6805
RX6806
RX6807
RX6808
RX6809
RX6810
RX6811
RX6812
RX6813
RX6814
RX6815
RX6816
RX6817
RX6818
R6801
R6802
R6803
R6804
R6805
R6806
R6807
R6808
R6809
R6810
R6811
R6812
R6813
R6814
R6815
R6816
R6817
R6818
R6819
R6820
R6821
R6822
R6823
R6824
R6825
R6826
R6827
R6828

(COMPONENT SIDE)

DMR-E100H GCS/GN/GH/GK
SD & PC CARD P.C.B. (1/2)
(REP3540EA)

SD & PC CARD P.C.B. (2/2)


F
E
D
C
B
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CKA6
CKA7
CKA8
CKA9
CKA10
CKA11
CKA12
CKA14
CKA13
CKA15
CKA68
CKA59
CKA1
CKA56
CKA66
CKA69
CKA61
CKA67
CKA65
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CKA62
CKA60
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CKA37
CKA3
CKA2
CKA54
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CKA31
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CKA34
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CKB7
CKB16
CKB1
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CKB43
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CKB51
CKB57
CKB60
CKB27
CKB62
CKB2
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CKB15
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CKB5
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CKB6
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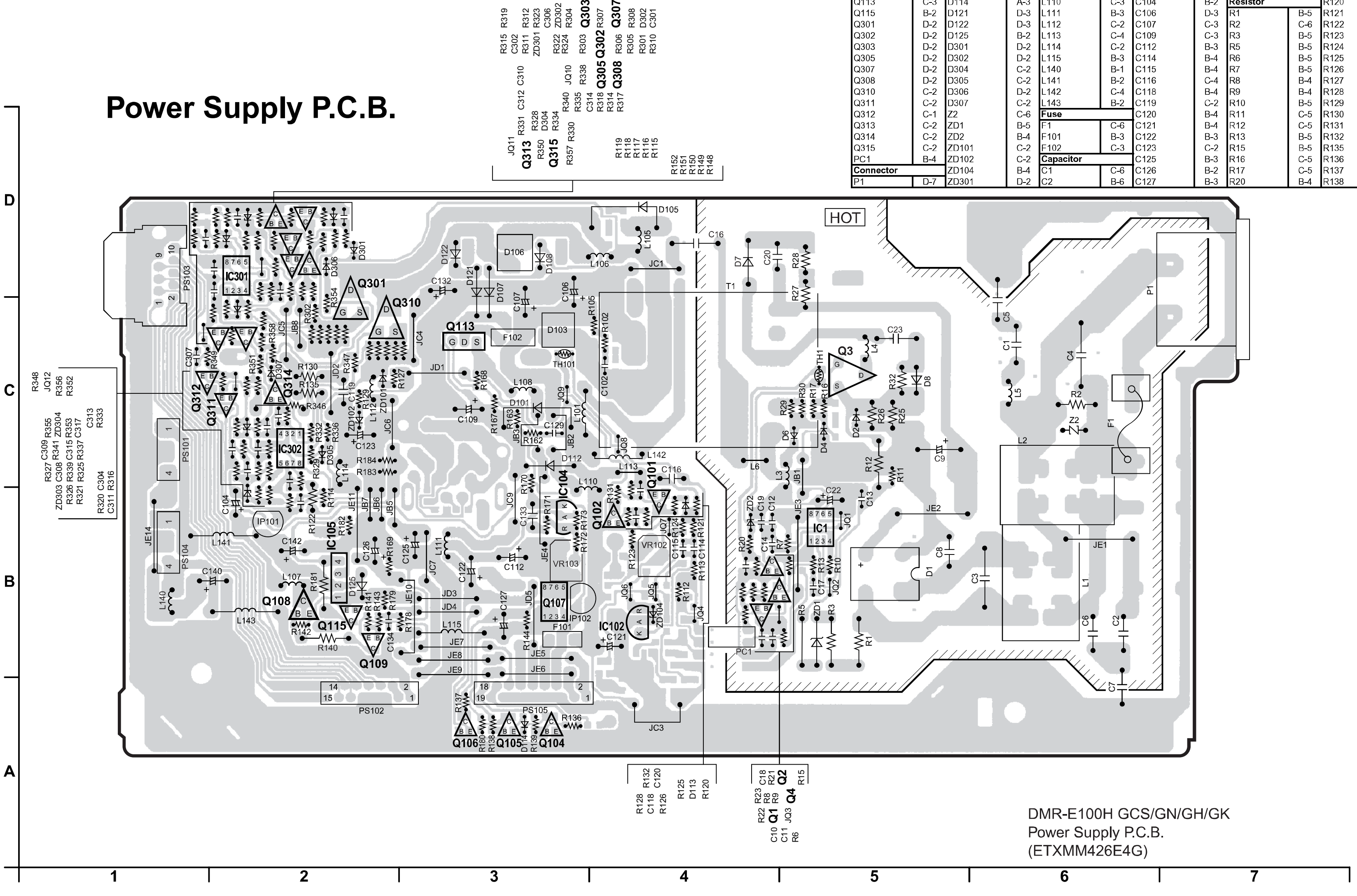
CKA5
CKC12
CKC11
CKC7
CKC5
CKC4
CKC3
CKC2
CKC1
CKC9
CKC8
CKC10
CKC6
CKB10

(FOIL SIDE)

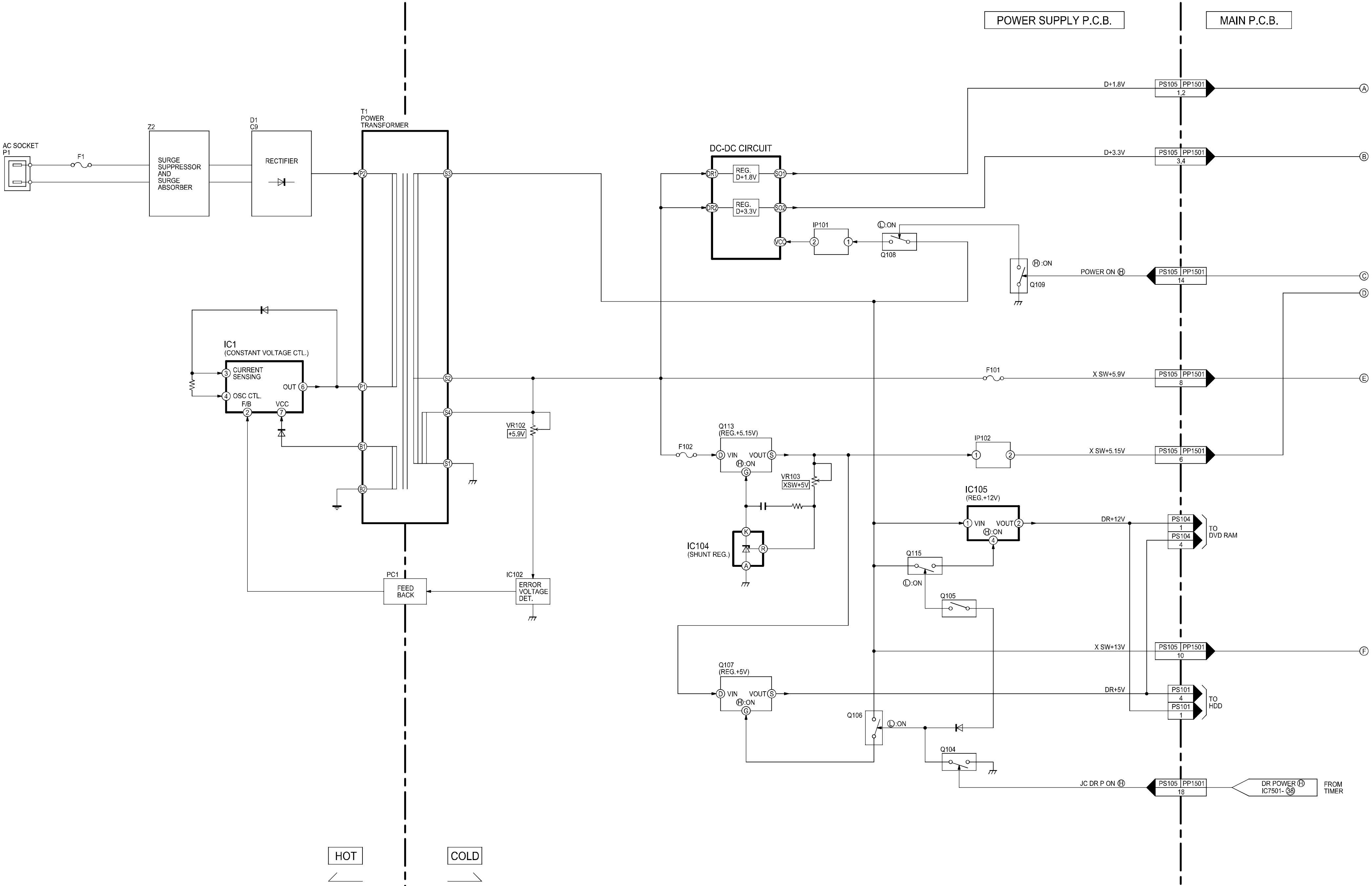
DMR-E100H GCS/GN/GH/GK
SD & PC CARD P.C.B. (2/2)
(REP3540EA)

POWER SUPPLY P.C.B.																	
Integrated Circuit		PS101	C-1	ZD302	D-2	C3	B-6	C129	C-3	R21	B-4	R139	A-3	R312	D-2	R354	C-2
IC1	B-5	PS102	A-2	ZD303	B-2	C4	C-6	C132	D-3	R22	B-4	R140	B-2	R314	D-2	R355	C-2
IC102	B-4	PS103	D-1	ZD304	C-2	C5	C-6	C133	B-3	R23	B-4	R141	B-2	R315	D-1	R356	C-2
IC104	B-3	PS104	B-1	**IC Protector**		C6	B-6	C134	B-2	R25	C-5	R142	B-2	R316	C-2	R357	C-2
IC105	B-2	PS105	A-3	IP101	B-2	C7	A-6	C140	B-2	R26	C-5	R143	B-2	R317	D-2	R358	C-2
IC301	D-2	**Diode**		IP102	B-3	C8	B-5	C142	B-2	R27	D-5	R144	B-3	R318	D-2	VR102	B-4
IC302	C-2	D1	B-5	**Transformer**		C9	C-5	C301	D-2	R28	D-5	R148	C-3	R319	D-1	VR103	B-3
Transistor		D2	C-5	T1	C-4	C10	B-4	C302	D-1	R29	C-5	R149	C-2	R320	B-2	**Thermister**	
Q1	B-4	D4	C-5	**Coil**		C11	B-4	C304	C-2	R30	C-5	R150	C-2	R321	B-2	TH1	C-5
Q2	B-4	D6	C-5	L1	B-6	C12	B-4	C306	D-2	R32	C-5	R151	C-2	R322	D-2	TH101	C-3
Q3	C-5	D7	D-4	L2	C-6	C13	B-5	C307	C-1	R102	C-4	R152	C-2	R323	D-2		
Q4	B-4	D8	C-5	L3	C-5	C14	B-4	C308	C-2	R105	C-4	R162	C-3	R324	D-2		
Q101	B-4	D101	C-3	L4	C-5	C16	D-4	C309	C-2	R112	B-4	R163	C-3	R325	C-2		
Q102	B-4	D103	C-3	L5	C-6	C17	B-5	C310	D-2	R113	B-4	R167	C-3	R326	B-2		
Q104	A-3	D105	D-4	L6	C-4	C18	B-4	C311	B-2	R114	B-2	R168	C-3	R327	C-2		
Q105	A-3	D106	D-3	L101	C-3	C19	B-4	C312	D-2	R115	C-2	R169	B-2	R328	C-2		
Q106	A-3	D107	D-3	L105	D-4	C20	D-4	C313	C-2	R116	C-2	R170	C-3	R329	C-2		
Q107	B-3	D108	D-3	L106	D-4	C22	B-5	C314	D-2	R117	C-2	R171	B-3	R330	C-2		
Q108	B-2	D112	C-3	L107	B-2	C23	C-5	C315	C-2	R118	C-2	R172	B-3	R331	C-2		
Q109	B-2	D113	B-4	L108	C-3	C102	C-4	C317	C-2	R119	C-2	R173	B-3	R332	C-2		
Q113	C-3	D114	A-3	L110	C-3	C104	B-2	**Resistor**		R120	B-4	R178	B-3	R333	C-2		
Q115	B-2	D121	D-3	L111	B-3	C106	D-3	R1	B-5	R121	B-4	R179	B-2	R334	C-2		
Q301	D-2	D122	D-3	L112	C-2	C107	C-3	R2	C-6	R122	B-2	R180	A-3	R335	D-2		
Q302	D-2	D125	B-2	L113	C-4	C109	C-3	R3	B-5	R123	B-4	R181	B-2	R336	C-2		
Q303	D-2	D301	D-2	L114	C-2	C112	B-3	R5	B-5	R124	B-4	R182	B-2	R337	C-2		
Q305	D-2	D302	D-2	L115	B-3	C114	B-4	R6	B-5	R125	B-4	R183	C-2	R338	D-2		
Q307	D-2	D304	C-2	L140	B-1	C115	B-4	R7	B-5	R126	B-4	R184	C-2	R339	C-2		
Q308	D-2	D305	C-2	L141	B-2	C116	C-4	R8	B-4	R127	C-2	R301	D-2	R340	D-2		
Q310	C-2	D306	D-2	L142	C-4	C118	B-4	R9	B-4	R128	B-4	R302	C-2	R341	C-2		
Q311	C-2	D307	C-2	L143	B-2	C119	C-2	R10	B-5	R129	C-2	R303	D-2	R346	C-2		
Q312	C-1	Z2	C-6	**Fuse**		C120	B-4	R11	C-5	R130	C-2	R304	D-2	R347	C-2		
Q313	C-2	ZD1	B-5	F1	C-6	C121	B-4	R12	C-5	R131	B-4	R305	D-2	R348	C-2		
Q314	C-2	ZD2	B-4	F101	B-3	C122	B-3	R13	B-5	R132	B-4	R306	D-2	R349	C-1		
Q315	C-2	ZD101	C-2	F102	C-3	C123	C-2	R15	B-5	R135	C-2	R307	D-2	R350	C-2		
PC1	B-4	ZD102	C-2	**Capacitor**		C125	B-3	R16	C-5	R136	A-3	R308	D-2	R351	C-2		
Connector		ZD104	B-4	C1	C-6	C126	B-2	R17	C-5	R137	A-3	R310	D-2	R352	C-2		
P1	D-7	ZD301	D-2	C2	B-6	C127	B-3	R20	B-4	R138	A-3	R311	D-2	R353	C-2		

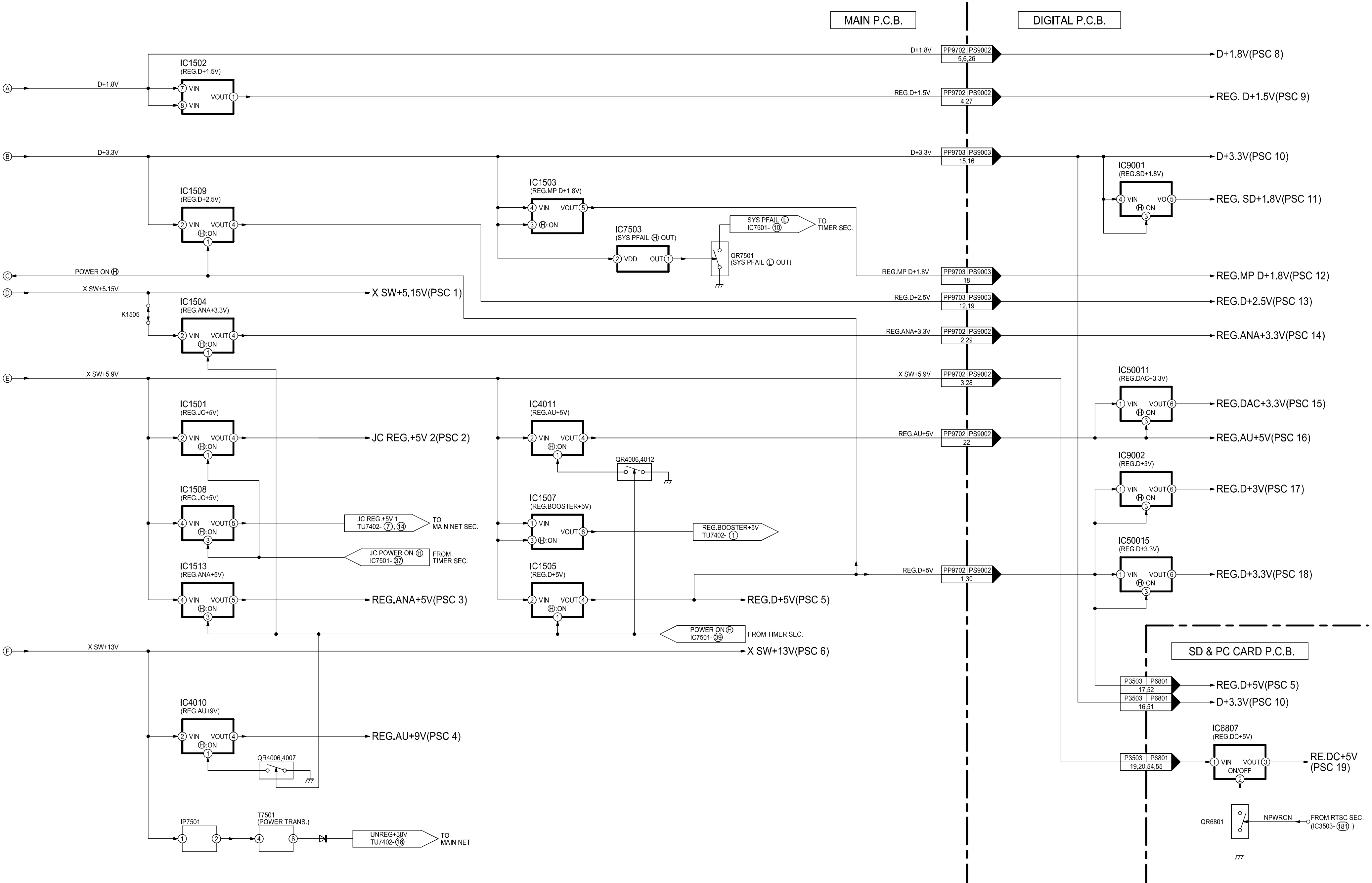
Power Supply P.C.B.


D
C
B
A
1
2
3
4
5
6
7
HOT
IC301
IC302
IC1
IC102
IC104
IC105
Q1
Q2
Q3
Q4
Q101
Q102
Q104
Q105
Q106
Q107
Q108
Q109
Q113
Q115
Q301
Q302
Q303
Q305
Q307
Q308
Q310
Q311
Q312
Q313
Q314
Q315
PC1
P1
PS101
PS102
PS103
PS104
PS105
T1
L1
L2
F1
F101
F102
TH1
TH101
VR102
VR103
IP101
IP102
JC1
JC3
JE1
JE2

DMR-E100H GCS/GN/GH/GK
Power Supply P.C.B.
(ETXMM426E4G)

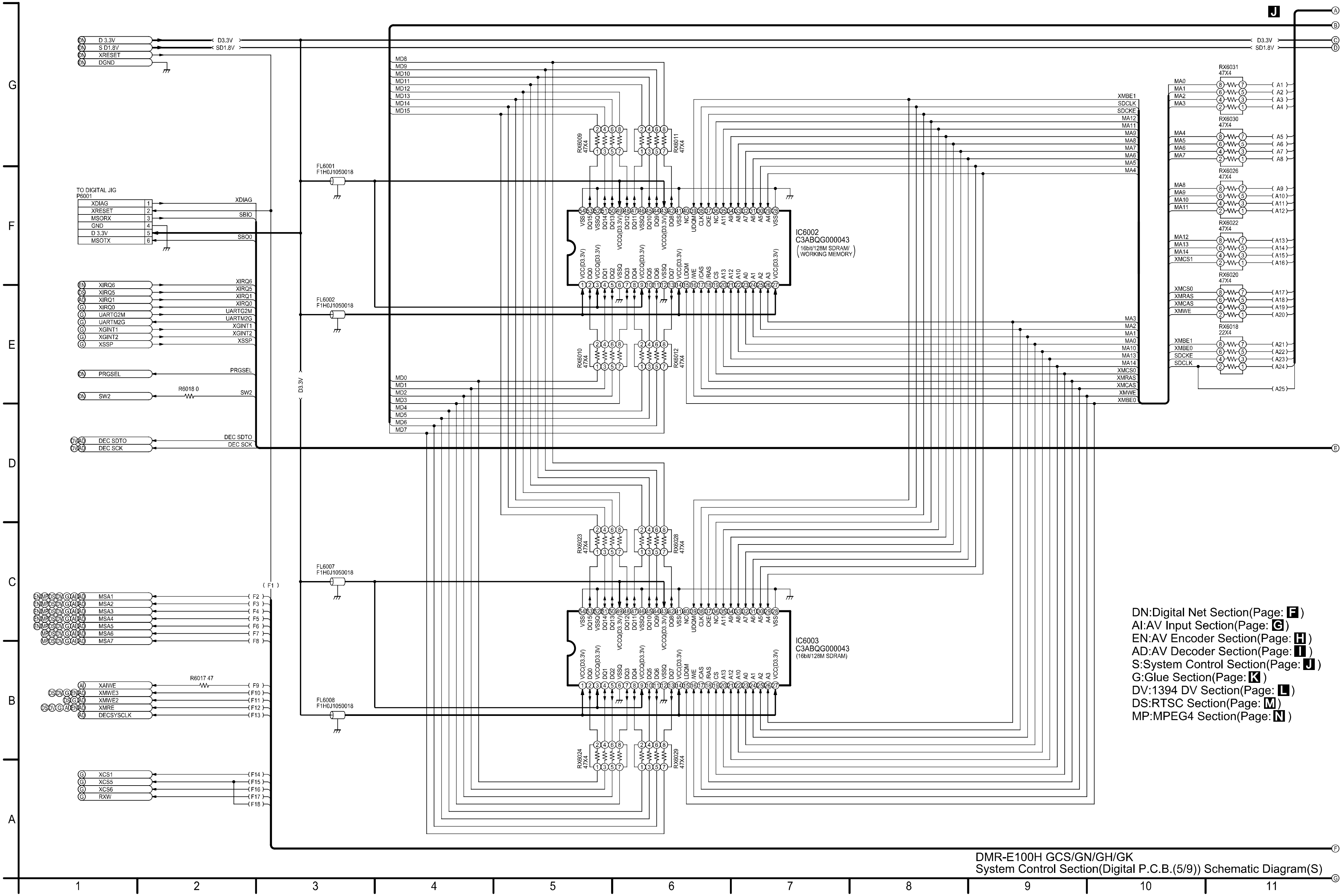

POWER SUPPLY P.C.B.
MAIN P.C.B.
AC SOCKET
P1
F1
Z2
SURGE SUPPRESSOR AND SURGE ABSORBER
D1
C9
RECTIFIER
T1
POWER TRANSFORMER
P2
P1
B1
B2
S3
S2
S4
S1
IC1
(CONSTANT VOLTAGE CTL.)
CURRENT SENSING
OSC CTL.
OUT
F/B
VCC
3
4
6
2
7
VR102
+5.9V
PC1
FEED BACK
IC102
ERROR VOLTAGE DET.
DC-DC CIRCUIT
DR1
DR2
VCC
REG. D+1.8V
REG. D+3.3V
SO1
SO2
IP101
L:ON
Q108
H:ON
Q109
D+1.8V
D+3.3V
POWER ON H
PS105
PP1501
1,2
3,4
14
8
6
10
18
A
B
C
D
E
F
F101
X SW+5.9V
Q113
(REG.+5.15V)
F102
D VIN
VOUT S
H:ON
G
VR103
XSW+5V
IP102
X SW+5.15V
IC104
(SHUNT REG.)
K
R
A
IC105
(REG.+12V)
VIN
VOUT
H:ON
DR+12V
PS104
1
4
TO DVD RAM
Q115
L:ON
Q105
X SW+13V
Q107
(REG.+5V)
DR+5V
PS101
TO HDD
Q106
L:ON
Q104
JC DR P ON H
DR POWER H
IC7501- 38
FROM TIMER
HOT
COLD

DMR-E100H GCS/GN/GH/GK
Power Supply Block Diagram


MAIN P.C.B.
DIGITAL P.C.B.
SD & PC CARD P.C.B.
Ⓐ D+1.8V
IC1502 (REG.D+1.5V)
⑦ VIN ⑧ VIN VOUT①
D+1.8V PP9702 PS9002 5,6,26
D+1.8V(PSC 8)
REG.D+1.5V PP9702 PS9002 4,27
REG. D+1.5V(PSC 9)
Ⓑ D+3.3V
D+3.3V PP9703 PS9003 15,16
D+3.3V(PSC 10)
IC9001 (REG.SD+1.8V)
④ VIN VO⑤ Ⓗ:ON ③
REG. SD+1.8V(PSC 11)
IC1509 (REG.D+2.5V)
② VIN VOUT④ Ⓗ:ON ①
IC1503 (REG.MP D+1.8V)
④ VIN VOUT⑤ ③ Ⓗ:ON
IC7503 (SYS PFAIL Ⓗ OUT)
② VDD OUT①
SYS PFAIL Ⓛ IC7501- ⑩ TO TIMER SEC.
QR7501 (SYS PFAIL Ⓛ OUT)
REG.MP D+1.8V PP9703 PS9003 18
REG.MP D+1.8V(PSC 12)
Ⓒ POWER ON Ⓗ
Ⓓ X SW+5.15V
X SW+5.15V(PSC 1)
K1505
IC1504 (REG.ANA+3.3V)
② VIN VOUT④ Ⓗ:ON ①
REG.D+2.5V PP9703 PS9003 12,19
REG.D+2.5V(PSC 13)
REG.ANA+3.3V PP9702 PS9002 2,29
REG.ANA+3.3V(PSC 14)
Ⓔ X SW+5.9V
X SW+5.9V PP9702 PS9002 3,28
IC50011 (REG.DAC+3.3V)
① VIN VOUT⑥ Ⓗ:ON ③
REG.DAC+3.3V(PSC 15)
IC1501 (REG.JC+5V)
② VIN VOUT④ Ⓗ:ON ①
JC REG.+5V 2(PSC 2)
IC4011 (REG.AU+5V)
② VIN VOUT④ Ⓗ:ON ①
REG.AU+5V PP9702 PS9002 22
REG.AU+5V(PSC 16)
QR4006,4012
IC9002 (REG.D+3V)
① VIN VOUT⑥ Ⓗ:ON ③
REG.D+3V(PSC 17)
IC1508 (REG.JC+5V)
④ VIN VOUT⑤ Ⓗ:ON ③
JC REG.+5V 1 TU7402- ⑦, ⑭ TO MAIN NET SEC.
IC1507 (REG.BOOSTER+5V)
① VIN ③ Ⓗ:ON VOUT⑥
REG.BOOSTER+5V TU7402- ①
JC POWER ON Ⓗ IC7501- ㊲ FROM TIMER SEC.
IC50015 (REG.D+3.3V)
① VIN VOUT⑥ Ⓗ:ON ③
IC1513 (REG.ANA+5V)
④ VIN VOUT⑤ Ⓗ:ON ③
REG.ANA+5V(PSC 3)
IC1505 (REG.D+5V)
② VIN VOUT④ Ⓗ:ON ①
REG.D+5V(PSC 5)
REG.D+5V PP9702 PS9002 1,30
REG.D+3.3V(PSC 18)
POWER ON Ⓗ IC7501- ㊴ FROM TIMER SEC.
Ⓕ X SW+13V
X SW+13V(PSC 6)
P3503 P6801 17,52
REG.D+5V(PSC 5)
P3503 P6801 16,51
D+3.3V(PSC 10)
IC4010 (REG.AU+9V)
② VIN VOUT④ Ⓗ:ON ①
REG.AU+9V(PSC 4)
QR4006,4007
IC6807 (REG.DC+5V)
P3503 P6801 19,20,54,55
① VIN VOUT③ ON/OFF ②
RE.DC+5V (PSC 19)
QR6801
NPWRON
FROM RTSC SEC. (IC3503- ⑱①)
IP7501 ① ②
T7501 (POWER TRANS.) ④ ⑥
UNREG+38V TU7402- ⑯ TO MAIN NET

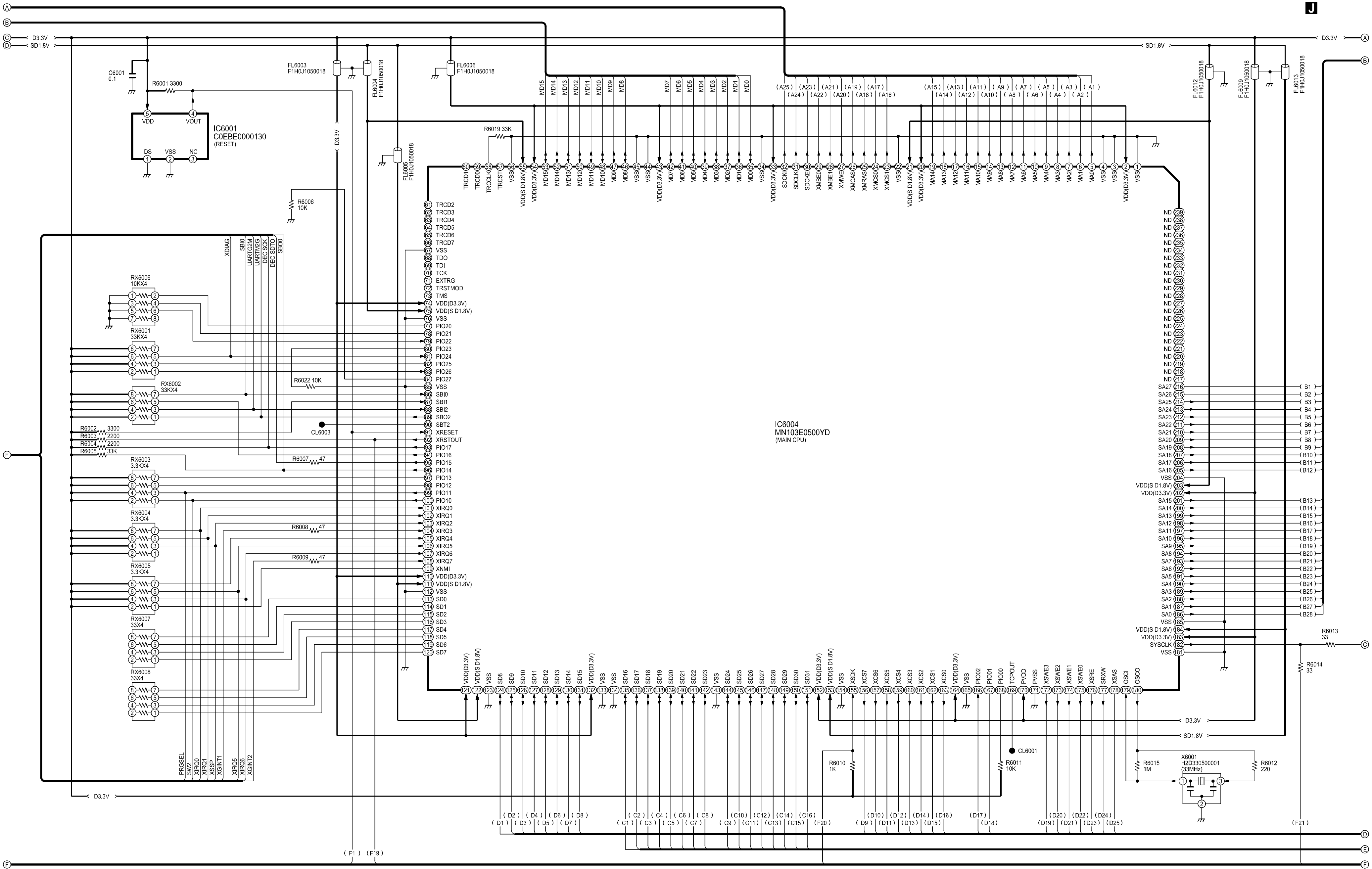
DMR-E100H GCS/GN/GH/GK
Power Supply Block Diagram

DMR-E100H GCS/GN/GH/GK
Power Supply Block Diagram


J
D 3.3V
S D1.8V
XRESET
DGND
D3.3V
SD1.8V
TO DIGITAL JIG
P6001
XDIAG
XRESET
MSORX
GND
D 3.3V
MSOTX
SBIO
SBO0
XIRQ6
XIRQ5
XIRQ1
XIRQ0
UARTG2M
UARTM2G
XGINT1
XGINT2
XSSP
PRGSEL
SW2
R6018 0
DEC SDTO
DEC SCK
MSA1
MSA2
MSA3
MSA4
MSA5
MSA6
MSA7
XAIWE
XMWE3
XMWE2
XMRE
DECSYSCLK
R6017 47
XCS1
XCS5
XCS6
RXW
F1
F2
F3
F4
F5
F6
F7
F8
F9
F10
F11
F12
F13
F14
F15
F16
F17
F18
FL6001
F1H0J1050018
FL6002
F1H0J1050018
FL6007
F1H0J1050018
FL6008
F1H0J1050018
MD0
MD1
MD2
MD3
MD4
MD5
MD6
MD7
MD8
MD9
MD10
MD11
MD12
MD13
MD14
MD15
RX6009
RX6010
RX6011
RX6012
RX6023
RX6024
RX6028
RX6029
47X4
IC6002
C3ABQG000043
(16bit/128M SDRAM/ WORKING MEMORY)
IC6003
C3ABQG000043
(16bit/128M SDRAM)
VSS
DQ15
VSSQ
DQ14
DQ13
VCCQ(D3.3V)
DQ12
DQ11
VSSQ
DQ10
DQ9
DQ8
NC
UDQM
CLK
CKE
A11
A9
A8
A7
A6
A5
A4
VCC(D3.3V)
DQ0
DQ1
DQ2
DQ3
DQ4
DQ5
DQ6
DQ7
LDQM
/WE
/CAS
/RAS
CS
A13
A12
A10
A0
A1
A2
A3
XMBE1
SDCLK
SDCKE
MA0
MA1
MA2
MA3
MA4
MA5
MA6
MA7
MA8
MA9
MA10
MA11
MA12
MA13
MA14
XMCS0
XMCS1
XMRAS
XMCAS
XMWE
XMBE0
RX6031
RX6030
RX6026
RX6022
RX6020
RX6018
22X4
A1
A2
A3
A4
A5
A6
A7
A8
A9
A10
A11
A12
A13
A14
A15
A16
A17
A18
A19
A20
A21
A22
A23
A24
A25
DN
AI
EN
AD
DS
DV
MP
G
A
B
C
D
E
F
G
1
2
3
4
5
6
7
8
9
10
11

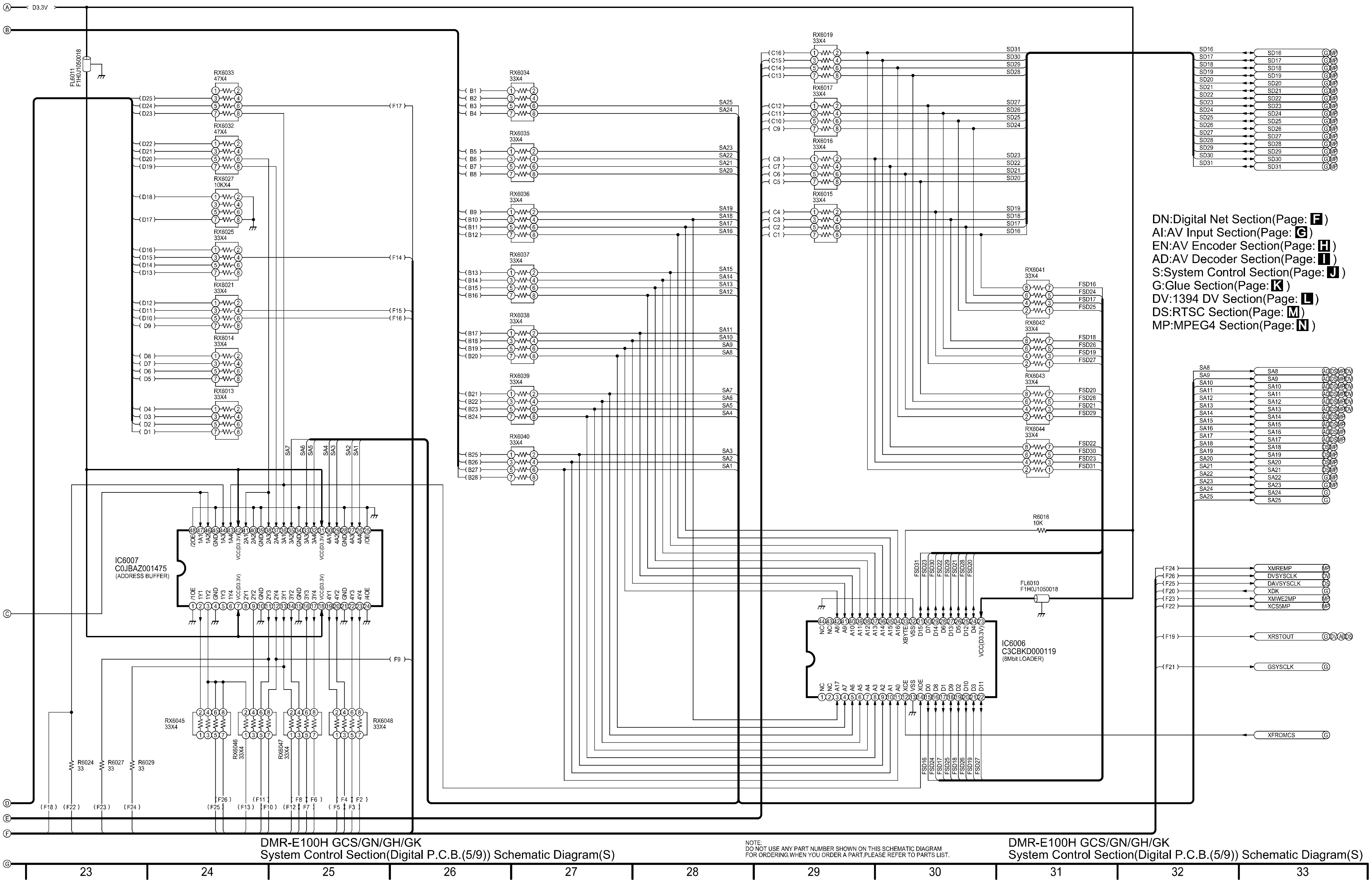
DN:Digital Net Section(Page: **F**)
AI:AV Input Section(Page: **G**)
EN:AV Encoder Section(Page: **H**)
AD:AV Decoder Section(Page: **I**)
S:System Control Section(Page: **J**)
G:Glue Section(Page: **K**)
DV:1394 DV Section(Page: **L**)
DS:RTSC Section(Page: **M**)
MP:MPEG4 Section(Page: **N**)

DMR-E100H GCS/GN/GH/GK
System Control Section(Digital P.C.B.(5/9)) Schematic Diagram(S)


J
A
B
C
D
E
F
G
D3.3V
SD1.8V
C6001
0.1
R6001 3300
IC6001
C0EBE0000130
(RESET)
VDD
VOUT
DS
VSS
NC
FL6003
F1H0J1050018
FL6004
F1H0J1050018
FL6005
F1H0J1050018
FL6006
F1H0J1050018
FL6009
F1H0J1050018
FL6012
F1H0J1050018
FL6013
F1H0J1050018
R6019 33K
R6006
10K
RX6006
10KX4
RX6001
33KX4
RX6002
33KX4
RX6003
3.3KX4
RX6004
3.3KX4
RX6005
3.3KX4
RX6007
33X4
RX6008
33X4
R6002 3300
R6003 2200
R6004 2200
R6005 33K
R6022 10K
R6007 47
R6008 47
R6009 47
CL6003
CL6001
XDIAG
SBI0
UARTG2M
UARTM2G
DEC SCK
DEC SDTO
SBO0
PRGSEL
SW2
XIRQ0
XIRQ1
XSSP
XGINT1
XIRQ5
XIRQ6
XGINT2
IC6004
MN103E0500YD
(MAIN CPU)
TRCD1
TRCD0
TRCCLK
TRCST
VSS
VDD(S D1.8V)
VDD(D3.3V)
MD15
MD14
MD13
MD12
MD11
MD10
MD9
MD8
MD7
MD6
MD5
MD4
MD3
MD2
MD1
MD0
SDCKI
SDCLK
SDCKE
XMBE0
XMBE1
XMWE
XMCAS
XMRAS
XMCS0
XMCS1
MA14
MA13
MA12
MA11
MA10
MA9
MA8
MA7
MA6
MA5
MA4
MA3
MA2
MA1
MA0
(A1)
(A2)
(A3)
(A4)
(A5)
(A6)
(A7)
(A8)
(A9)
(A10)
(A11)
(A12)
(A13)
(A14)
(A15)
(A16)
(A17)
(A18)
(A19)
(A20)
(A21)
(A22)
(A23)
(A24)
(A25)
TRCD2
TRCD3
TRCD4
TRCD5
TRCD6
TRCD7
TDO
TDI
TCK
EXTRG
TRSTMOD
TMS
PIO20
PIO21
PIO22
PIO23
PIO24
PIO25
PIO26
PIO27
SBI0
SBI1
SBI2
SBO2
SBT2
XRESET
XRSTOUT
PIO17
PIO16
PIO15
PIO14
PIO13
PIO12
PIO11
PIO10
XIRQ0
XIRQ1
XIRQ2
XIRQ3
XIRQ4
XIRQ5
XIRQ6
XIRQ7
XNMI
SD0
SD1
SD2
SD3
SD4
SD5
SD6
SD7
SD8
SD9
SD10
SD11
SD12
SD13
SD14
SD15
SD16
SD17
SD18
SD19
SD20
SD21
SD22
SD23
SD24
SD25
SD26
SD27
SD28
SD29
SD30
SD31
XSDK
XCS7
XCS6
XCS5
XCS4
XCS3
XCS2
XCS1
XCS0
PIO02
PIO01
PIO00
TCPOUT
PVDD
PVSS
XSWE3
XSWE2
XSWE1
XSWE0
XSRE
SRXW
XSAS
OSCI
OSCO
ND
SA27
SA26
SA25
SA24
SA23
SA22
SA21
SA20
SA19
SA18
SA17
SA16
SA15
SA14
SA13
SA12
SA11
SA10
SA9
SA8
SA7
SA6
SA5
SA4
SA3
SA2
SA1
SA0
SYSCLK
(B1)
(B2)
(B3)
(B4)
(B5)
(B6)
(B7)
(B8)
(B9)
(B10)
(B11)
(B12)
(B13)
(B14)
(B15)
(B16)
(B17)
(B18)
(B19)
(B20)
(B21)
(B22)
(B23)
(B24)
(B25)
(B26)
(B27)
(B28)
R6013
33
R6014
33
R6010
1K
R6011
10K
R6015
1M
R6012
220
X6001
H2D330500001
(33MHz)
(D1)
(D2)
(D3)
(D4)
(D5)
(D6)
(D7)
(D8)
(C1)
(C2)
(C3)
(C4)
(C5)
(C6)
(C7)
(C8)
(C9)
(C10)
(C11)
(C12)
(C13)
(C14)
(C15)
(C16)
(F20)
(D9)
(D10)
(D11)
(D12)
(D13)
(D14)
(D15)
(D16)
(D17)
(D18)
(D19)
(D20)
(D21)
(D22)
(D23)
(D24)
(D25)
(F21)
(F1)
(F19)
12
13
14
15
16
17
18
19
20
21
22

DMR-E100H GCS/GN/GH/GK
System Control Section(Digital P.C.B.(5/9)) Schematic Diagram(S)

DMR-E100H GCS/GN/GH/GK
System Control Section(Digital P.C.B.(5/9)) Schematic Diagram(S)


D3.3V
FL6011 F1H0J1050018
RX6033 47X4
RX6032 47X4
RX6027 10KX4
RX6025 33X4
RX6021 33X4
RX6014 33X4
RX6013 33X4
RX6034 33X4
RX6035 33X4
RX6036 33X4
RX6037 33X4
RX6038 33X4
RX6039 33X4
RX6040 33X4
RX6019 33X4
RX6017 33X4
RX6016 33X4
RX6015 33X4
RX6041 33X4
RX6042 33X4
RX6043 33X4
RX6044 33X4
IC6007 C0JBAZ001475 (ADDRESS BUFFER)
IC6006 C3CBKD000119 (8Mbit LOADER)
R6016 10K
FL6010 F1H0J1050018
RX6045 33X4
RX6046 33X4
RX6047 33X4
RX6048 33X4
R6024 33
R6027 33
R6029 33
XMREMP
DVSYSCLK
DAVSYSCLK
XDK
XMWE2MP
XCS5MP
XRSTOUT
GSYSCLK
XFROMCS
23
24
25
26
27
28
29
30
31
32
33

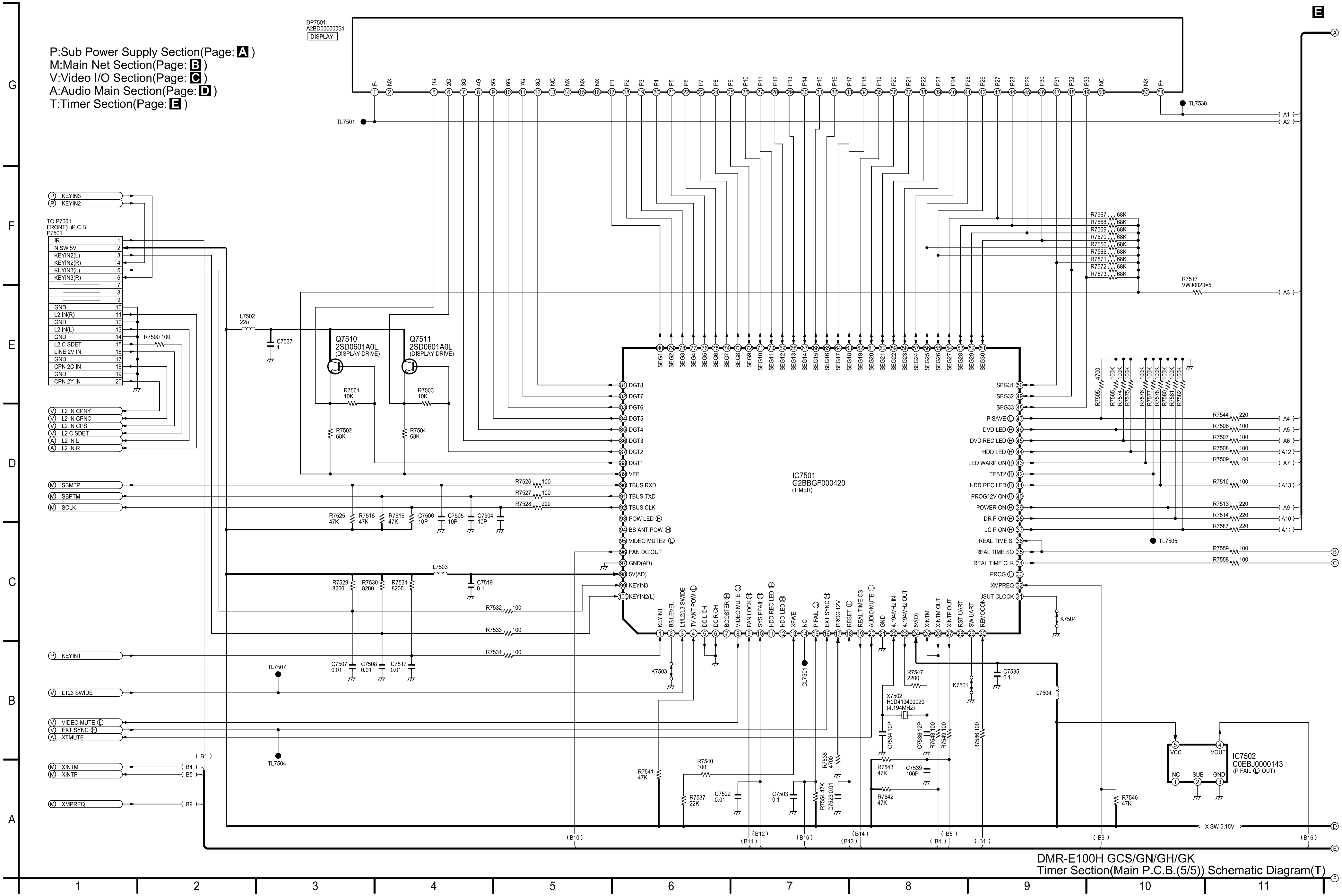
DN:Digital Net Section(Page: F)
AI:AV Input Section(Page: G)
EN:AV Encoder Section(Page: H)
AD:AV Decoder Section(Page: I)
S:System Control Section(Page: J)
G:Glue Section(Page: K)
DV:1394 DV Section(Page: L)
DS:RTSC Section(Page: M)
MP:MPEG4 Section(Page: N)

DMR-E100H GCS/GN/GH/GK
System Control Section(Digital P.C.B.(5/9)) Schematic Diagram(S)

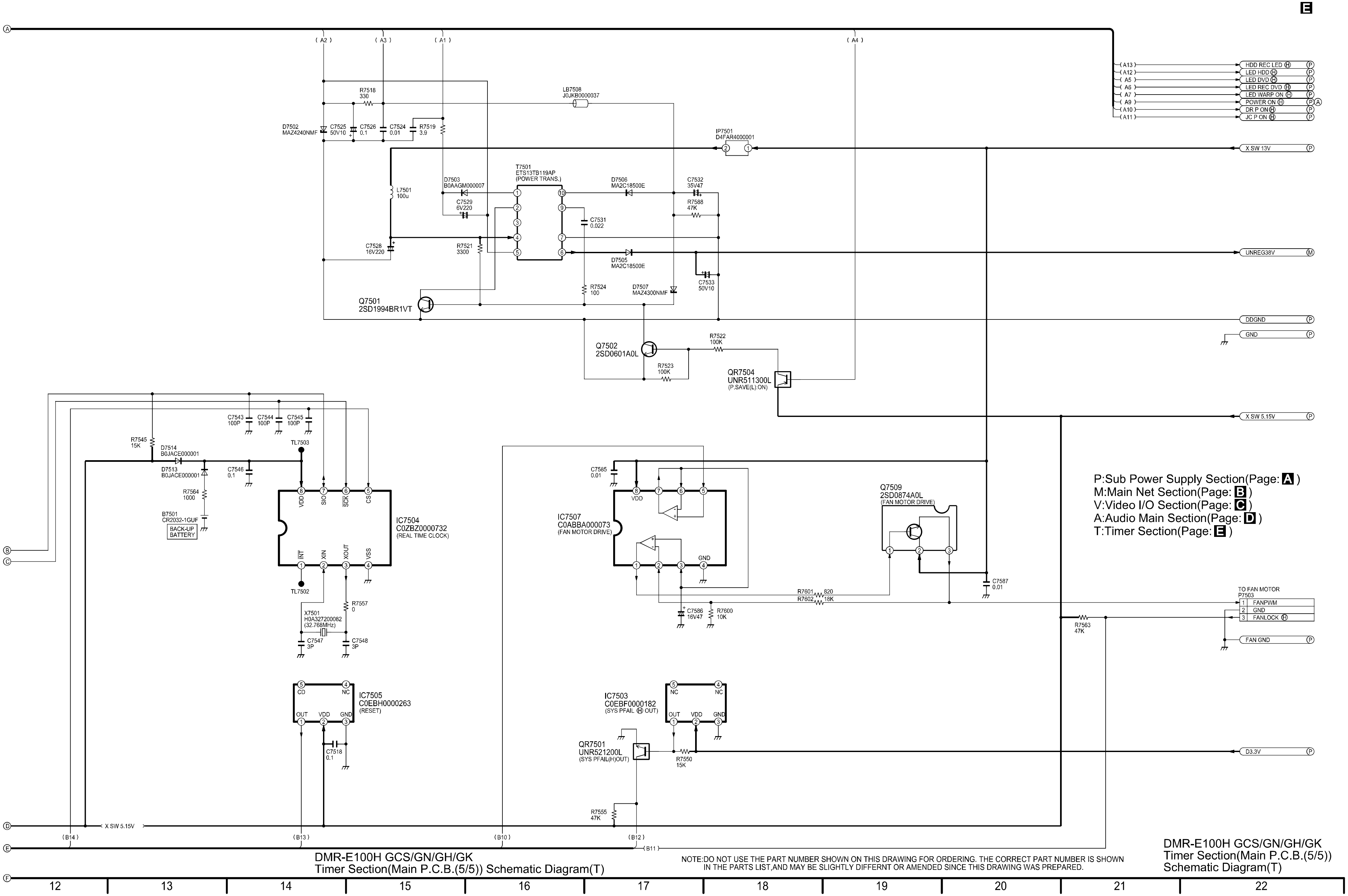
NOTE:
DO NOT USE ANY PART NUMBER SHOWN ON THIS SCHEMATIC DIAGRAM
FOR ORDERING.WHEN YOU ORDER A PART,PLEASE REFER TO PARTS LIST.

DMR-E100H GCS/GN/GH/GK
System Control Section(Digital P.C.B.(5/9)) Schematic Diagram(S)

P:Sub Power Supply Section(Page: **A**)
M:Main Net Section(Page: **B**)
V:Video I/O Section(Page: **C**)
A:Audio Main Section(Page: **D**)
T:Timer Section(Page: **E**)


E
DP7501
A2BD00000064
DISPLAY
F- NX 1G 2G 3G 4G 5G 6G 7G 8G NC NX NX NX P1 P2 P3 P4 P5 P6 P7 P8 P9 P10 P11 P12 P13 P14 P15 P16 P17 P18 P19 P20 P21 P22 P23 P24 P25 P26 P27 P28 P29 P30 P31 P32 P33 NC NX F+
TL7501
TL7538
A1
A2
A3
A4
A5
A6
A12
A7
A13
A9
A10
A11
B
C
D
E
F
KEYIN3
KEYIN2
TO P7001
FRONT(L)P.C.B.
P7501
IR
N SW 5V
KEYIN2(L)
KEYIN2(R)
KEYIN3(L)
KEYIN3(R)
GND
L2 IN(R)
GND
L2 IN(L)
GND
L2 C SDET
LINE 2V IN
GND
CPN 2C IN
GND
CPN 2Y IN
R7590 100
L2 IN CPNY
L2 IN CPNC
L2 IN CPS
L2 C SDET
L2 IN L
L2 IN R
SBMTP
SBPTM
SCLK
KEYIN1
L123 SWIDE
VIDEO MUTE Ⓛ
EXT SYNC Ⓗ
XTMUTE
XINTM
XINTP
XMPREQ
B1 B4 B5 B9 B10 B11 B12 B13 B14 B16
L7502
22u
C7537
1
Q7510
2SD0601A0L
(DISPLAY DRIVE)
Q7511
2SD0601A0L
(DISPLAY DRIVE)
R7501
10K
R7503
10K
R7502
68K
R7504
68K
R7526 100
R7527 100
R7528 220
R7525 47K
R7516 47K
R7515 47K
C7506 10P
C7505 10P
C7504 10P
L7503
C7519
0.1
R7529 8200
R7530 8200
R7531 8200
R7532 100
R7533 100
R7534 100
C7507 0.01
C7508 0.01
C7517 0.01
TL7507
TL7504
K7503
IC7501
G2BBGF000420
(TIMER)
DGT8 DGT7 DGT6 DGT5 DGT4 DGT3 DGT2 DGT1
VEE
TBUS RXD
TBUS TXD
TBUS CLK
POW LED Ⓗ
BS ANT POW Ⓗ
VIDEO MUTE2 Ⓛ
FAN DC OUT
GND(AD)
5V(AD)
KEYIN3
KEYIN2(L)
SEG1 ... SEG30
SEG31
SEG32
SEG33
P SAVE Ⓛ
DVD LED Ⓗ
DVD REC LED Ⓗ
HDD LED Ⓗ
LED WARP ON Ⓗ
TEST2 Ⓗ
HDD REC LED Ⓗ
PROG12V ON Ⓗ
POWER ON Ⓗ
DR P ON Ⓗ
JC P ON Ⓗ
REAL TIME SI
REAL TIME SO
REAL TIME CLK
PROG Ⓛ
XMPREQ
JSUT CLOCK
KEYIN1
BS LEVEL
L1/L2/L3 SWIDE
TV ANT POW Ⓛ
DC L CH
DC R CH
BOOSTER Ⓗ
VIDEO MUTE Ⓛ
FAN LOCK Ⓗ
SYS PFAIL Ⓗ
HDD REC LED Ⓗ
HDD LED Ⓗ
XFWE
NC
P FAIL Ⓛ
EXT SYNC Ⓗ
PROG 12V
RESET Ⓛ
REAL TIME CS
AUDIO MUTE Ⓛ
GND
4.194MHz IN
4.194MHz OUT
5V(D)
XINTM
XINTM OUT
XINTP OUT
RST UART
SW UART
REMOCON
R7567 68K
R7568 68K
R7569 68K
R7570 68K
R7556 68K
R7566 68K
R7571 68K
R7572 68K
R7573 68K
R7517
VWJ0023=5
R7505 4700
R7565 100K
R7574 100K
R7575 100K
R7576 100K
R7577 100K
R7578 100K
R7580 100K
R7581 100K
R7582 100K
R7544 220
R7506 100
R7507 100
R7508 100
R7509 100
R7510 100
R7513 220
R7514 220
R7587 220
TL7505
R7559 100
R7558 100
K7504
K7501
C7535
0.1
L7504
R7547
2200
X7502
H0D419400020
(4.194MHz)
C7534 10P
C7536 12P
R7548 100
R7549 100
R7586 100
R7543
47K
C7539
100P
R7542
47K
R7546
47K
IC7502
C0EBJ0000143
(P FAIL Ⓛ OUT)
VCC
VOUT
NC
SUB
GND
CL7501
R7541
47K
R7540
100
R7537
22K
C7502
0.01
C7503
0.1
R7536
4700
R7554 47K
C7523 0.01
X SW 5.15V
G F E D C B A
1 2 3 4 5 6 7 8 9 10 11

DMR-E100H GCS/GN/GH/GK
Timer Section(Main P.C.B.(5/5)) Schematic Diagram(T)

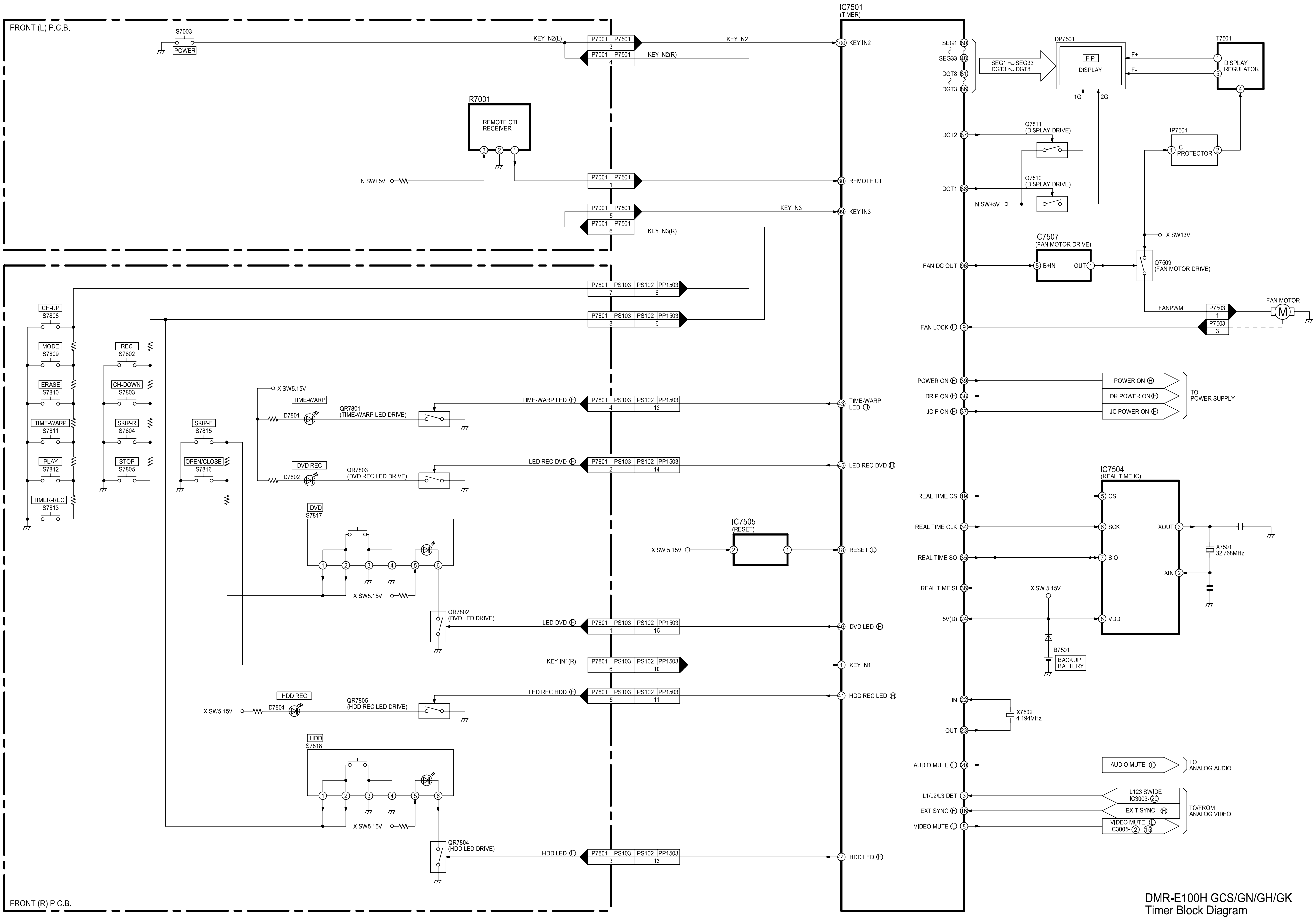

E
A2
A3
A1
A4
A13
A12
A5
A6
A7
A9
A10
A11
HDD REC LED Ⓗ
LED HDD Ⓗ
LED DVD Ⓗ
LED REC DVD Ⓗ
LED WARP ON Ⓗ
POWER ON Ⓗ
DR P ON Ⓗ
JC P ON Ⓗ
X SW 13V
UNREG38V
DDGND
GND
X SW 5.15V
D3.3V
FAN GND
R7518 330
LB7508 J0JKB0000037
D7502 MAZ4240NMF
C7525 50V10
C7526 0.1
C7524 0.01
R7519 3.9
IP7501 D4FAR4000001
L7501 100u
D7503 B0AAGM000007
T7501 ETS13TB119AP (POWER TRANS.)
D7506 MA2C18500E
C7532 35V47
C7529 6V220
R7588 47K
C7531 0.022
C7528 16V220
R7521 3300
D7505 MA2C18500E
C7533 50V10
R7524 100
D7507 MAZ4300NMF
Q7501 2SD1994BR1VT
Q7502 2SD0601A0L
R7522 100K
R7523 100K
QR7504 UNR511300L (P.SAVE(L):ON)
C7543 100P
C7544 100P
C7545 100P
R7545 15K
D7514 B0JACE000001
D7513 B0JACE000001
C7546 0.1
TL7503
R7564 1000
B7501 CR2032-1GUF
BACK-UP BATTERY
VDD SIO SCK CS
INT XIN XOUT VSS
IC7504 C0ZBZ0000732 (REAL TIME CLOCK)
TL7502
R7557 0
X7501 H0A327200082 (32.768MHz)
C7547 3P
C7548 3P
C7585 0.01
VDD GND
IC7507 C0ABBA000073 (FAN MOTOR DRIVE)
C7586 16V47
R7600 10K
Q7509 2SD0874A0L (FAN MOTOR DRIVE)
C7587 0.01
R7601 820
R7602 18K
TO FAN MOTOR P7503
1 FANPWM
2 GND
3 FANLOCK Ⓗ
R7563 47K
IC7505 C0EBH0000263 (RESET)
CD NC OUT VDD GND
C7518 0.1
IC7503 C0EBF0000182 (SYS PFAIL Ⓗ OUT)
NC NC OUT VDD GND
QR7501 UNR521200L (SYS PFAIL(H)OUT)
R7550 15K
R7555 47K
X SW 5.15V
B14
B13
B10
B12
B11
12
13
14
15
16
17
18
19
20
21
22

P:Sub Power Supply Section(Page: **A**)
M:Main Net Section(Page: **B**)
V:Video I/O Section(Page: **C**)
A:Audio Main Section(Page: **D**)
T:Timer Section(Page: **E**)

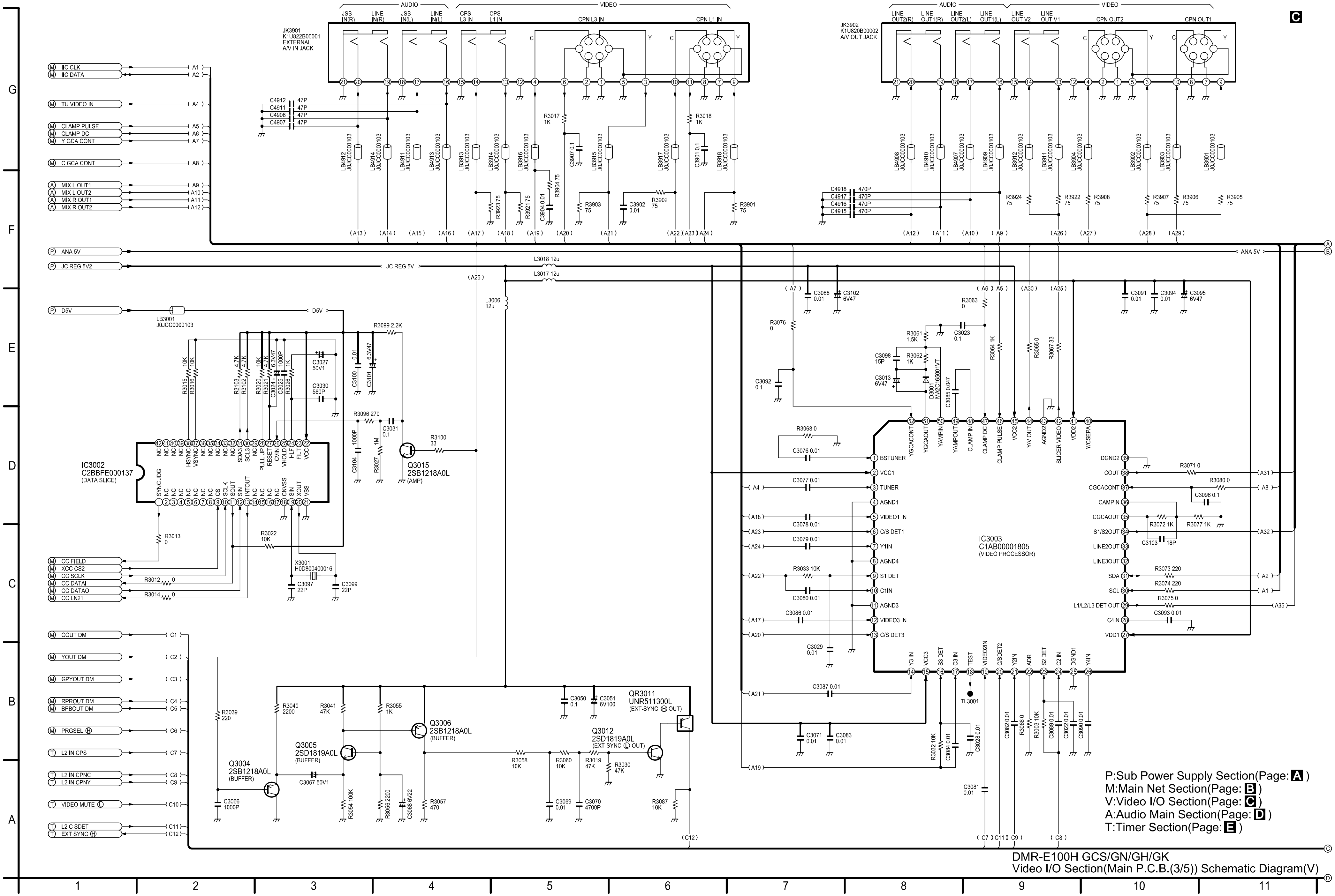
DMR-E100H GCS/GN/GH/GK
Timer Section(Main P.C.B.(5/5)) Schematic Diagram(T)

NOTE:DO NOT USE THE PART NUMBER SHOWN ON THIS DRAWING FOR ORDERING. THE CORRECT PART NUMBER IS SHOWN IN THE PARTS LIST,AND MAY BE SLIGHTLY DIFFERNT OR AMENDED SINCE THIS DRAWING WAS PREPARED.

DMR-E100H GCS/GN/GH/GK
Timer Section(Main P.C.B.(5/5))
Schematic Diagram(T)


FRONT (L) P.C.B.
FRONT (R) P.C.B.
S7003
POWER
KEY IN2(L)
KEY IN2(R)
KEY IN2
P7001
P7501
IR7001
REMOTE CTL. RECEIVER
N SW+5V
KEY IN3
KEY IN3(R)
P7801
PS103
PS102
PP1503
CH-UP S7808
MODE S7809
ERASE S7810
TIME-WARP S7811
PLAY S7812
TIMER-REC S7813
REC S7802
CH-DOWN S7803
SKIP-R S7804
STOP S7805
SKIP-F S7815
OPEN/CLOSE S7816
X SW5.15V
TIME-WARP
D7801
QR7801 (TIME-WARP LED DRIVE)
TIME-WARP LED Ⓗ
DVD REC
D7802
QR7803 (DVD REC LED DRIVE)
LED REC DVD Ⓗ
DVD S7817
QR7802 (DVD LED DRIVE)
LED DVD Ⓗ
KEY IN1(R)
HDD REC
D7804
QR7805 (HDD REC LED DRIVE)
LED REC HDD Ⓗ
HDD S7818
QR7804 (HDD LED DRIVE)
HDD LED Ⓗ
IC7505 (RESET)
X SW 5.15V
IC7501 (TIMER)
KEY IN2
REMOTE CTL.
KEY IN3
TIME-WARP LED Ⓗ
LED REC DVD Ⓗ
RESET Ⓛ
DVD LED Ⓗ
KEY IN1
HDD REC LED Ⓗ
HDD LED Ⓗ
SEG1
SEG33
DGT8
DGT3
SEG1～SEG33 DGT3～DGT8
DP7501
FIP DISPLAY
1G
2G
F+
F-
T7501
DISPLAY REGULATOR
DGT2
Q7511 (DISPLAY DRIVE)
DGT1
Q7510 (DISPLAY DRIVE)
IP7501
IC PROTECTOR
X SW13V
IC7507 (FAN MOTOR DRIVE)
FAN DC OUT
B+IN
OUT
Q7509 (FAN MOTOR DRIVE)
FANPWM
P7503
FAN MOTOR
FAN LOCK Ⓗ
POWER ON Ⓗ
DR P ON Ⓗ
JC P ON Ⓗ
DR POWER ON Ⓗ
JC POWER ON Ⓗ
TO POWER SUPPLY
IC7504 (REAL TIME IC)
REAL TIME CS
REAL TIME CLK
REAL TIME SO
REAL TIME SI
5V(D)
CS
SCK
SIO
VDD
XOUT
XIN
X7501 32.768MHz
B7501 BACKUP BATTERY
IN
OUT
X7502 4.194MHz
AUDIO MUTE Ⓛ
TO ANALOG AUDIO
L1/L2/L3 DET
EXT SYNC Ⓗ
VIDEO MUTE Ⓛ
L123 SWIDE IC3003-㉙
EXIT SYNC Ⓗ
VIDEO MUTE Ⓛ IC3005-②, ⑮
TO/FROM ANALOG VIDEO

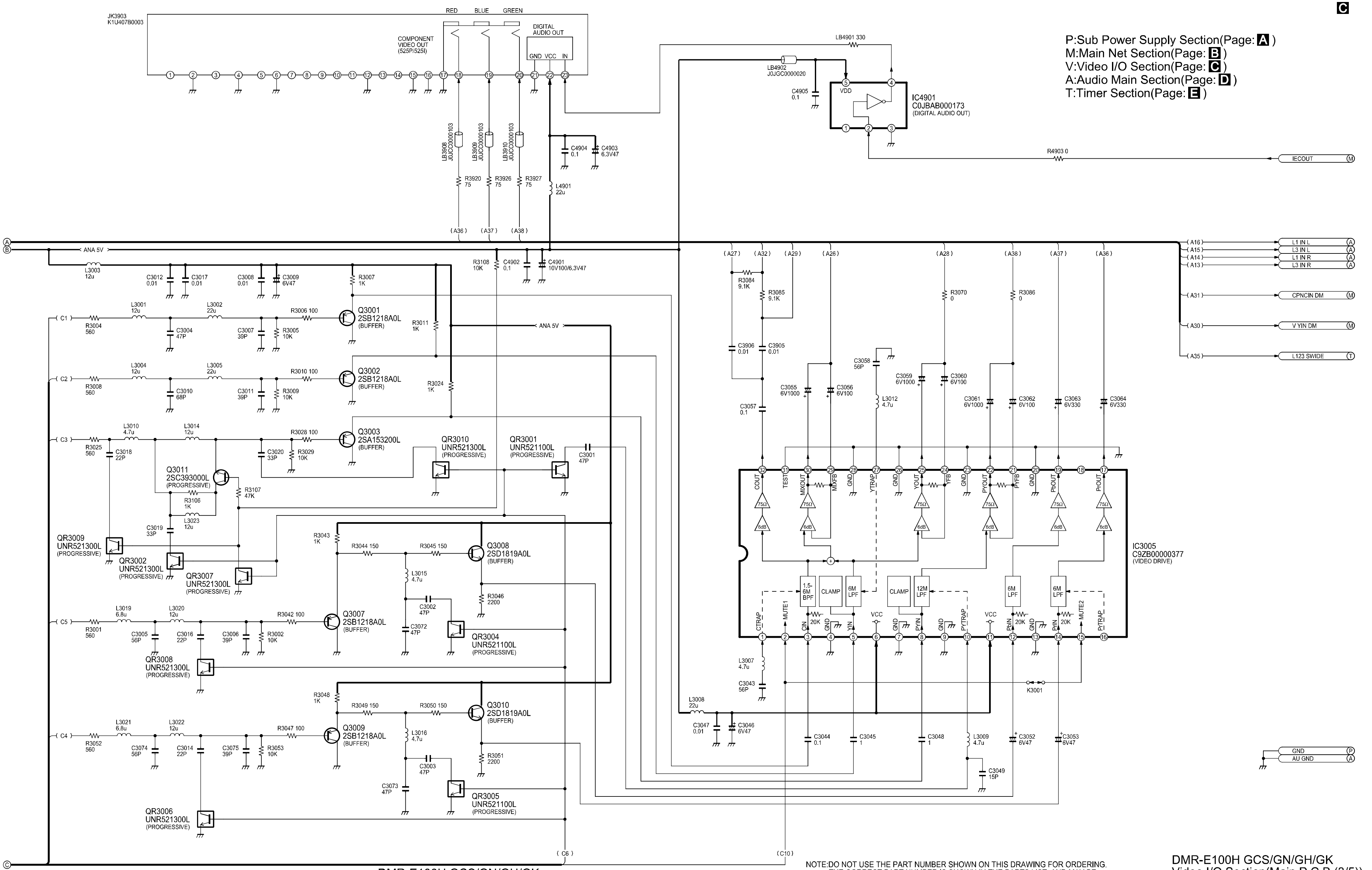
DMR-E100H GCS/GN/GH/GK
Timer Block Diagram


C
JK3901
K1U822B00001
EXTERNAL
A/V IN JACK
AUDIO
VIDEO
JSB IN(R)
LINE IN(R)
JSB IN(L)
LINE IN(L)
CPS L3 IN
CPS L1 IN
CPN L3 IN
CPN L1 IN
JK3902
K1U820B00002
A/V OUT JACK
LINE OUT2(R)
LINE OUT1(R)
LINE OUT2(L)
LINE OUT1(L)
LINE OUT V2
LINE OUT V1
CPN OUT2
CPN OUT1
IIC CLK
IIC DATA
TU VIDEO IN
CLAMP PULSE
CLAMP DC
Y GCA CONT
C GCA CONT
MIX L OUT1
MIX L OUT2
MIX R OUT1
MIX R OUT2
ANA 5V
JC REG 5V2
JC REG 5V
D5V
LB3001
J0JCC0000103
L3018 12u
L3017 12u
L3006 12u
IC3002
C2BBFE000137
(DATA SLICE)
X3001
H0D800400016
Q3015
2SB1218A0L
(AMP)
IC3003
C1AB00001805
(VIDEO PROCESSOR)
BSTUNER
VCC1
TUNER
AGND1
VIDEO1 IN
C/S DET1
Y1IN
AGND4
S1 DET
C1IN
AGND3
VIDEO3 IN
C/S DET3
DGND2
COUT
CGCACONT
CAMPIN
CGCAOUT
S1/S2OUT
LINE2OUT
LINE3OUT
SDA
SCL
L1/L2/L3 DET OUT
C4IN
VDD1
YGCACONT
YGCAOUT
YAMPIN
YAMPOUT
CLAMP IN
CLAMP DC
CLAMP PULSE
VCC2
Y/V OUT
AGND2
SLICER VIDEO
VDD2
Y/CSEPA
Y3 IN
VCC3
S3 DET
C3 IN
TEST
VIDEO2IN
C/SDET2
Y2IN
ADR
S2 DET
C2 IN
DGND1
Y4IN
TL3001
D3001
MA2C16500 1VT
CC FIELD
XCC CS2
CC SCLK
CC DATAI
CC DATAO
CC LN21
COUT DM
YOUT DM
GPYOUT DM
RPROUT DM
BPBOUT DM
PRGSEL Ⓗ
L2 IN CPS
L2 IN CPNC
L2 IN CPNY
VIDEO MUTE Ⓛ
L2 C SDET
EXT SYNC Ⓗ
Q3004
2SB1218A0L
(BUFFER)
Q3005
2SD1819A0L
(BUFFER)
Q3006
2SB1218A0L
(BUFFER)
Q3012
2SD1819A0L
(EXT-SYNC Ⓛ OUT)
QR3011
UNR511300L
(EXT-SYNC Ⓗ OUT)
G
F
E
D
C
B
A
1
2
3
4
5
6
7
8
9
10
11

P:Sub Power Supply Section(Page: **A**)
M:Main Net Section(Page: **B**)
V:Video I/O Section(Page: **C**)
A:Audio Main Section(Page: **D**)
T:Timer Section(Page: **E**)

DMR-E100H GCS/GN/GH/GK
Video I/O Section(Main P.C.B.(3/5)) Schematic Diagram(V)

P:Sub Power Supply Section(Page: A)
M:Main Net Section(Page: B)
V:Video I/O Section(Page: C)
A:Audio Main Section(Page: D)
T:Timer Section(Page: E)

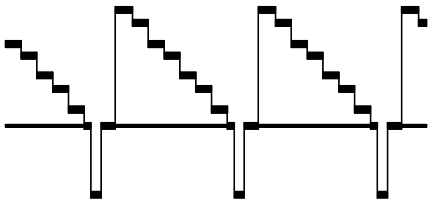
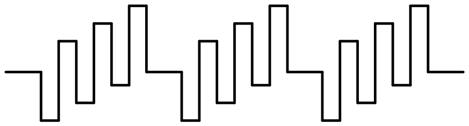
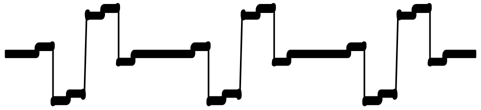
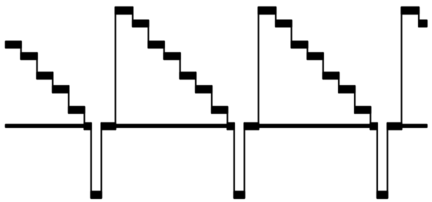
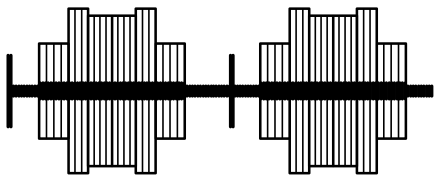
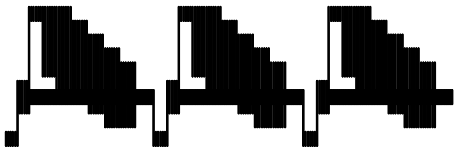
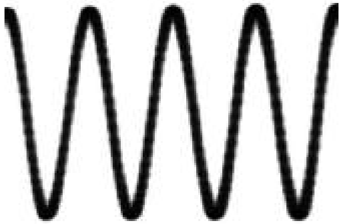
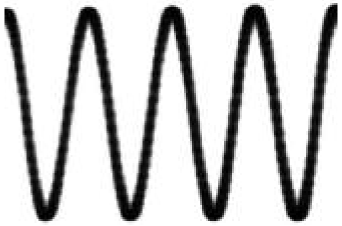
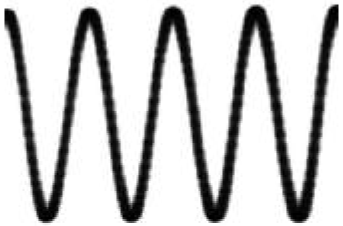
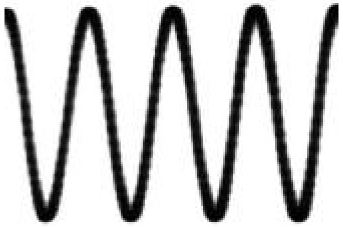

JK3903
K1U407B0003
COMPONENT VIDEO OUT (525P/525I)
RED
BLUE
GREEN
DIGITAL AUDIO OUT
GND VCC IN
LB3908 J0JCC0000103
LB3909 J0JCC0000103
LB3910 J0JCC0000103
R3920 75
R3926 75
R3927 75
C4904 0.1
C4903 6.3V47
L4901 22u
LB4901 330
LB4902 J0JGC0000020
C4905 0.1
VDD
IC4901
C0JBAB000173
(DIGITAL AUDIO OUT)
R4903 0
IECOUT
ANA 5V
L3003 12u
C3012 0.01
C3017 0.01
C3008 0.01
C3009 6V47
R3007 1K
R3108 10K
C4902 0.1
C4901 10V100/6.3V47
C1
R3004 560
L3001 12u
L3002 22u
C3004 47P
C3007 39P
R3005 10K
R3006 100
Q3001 2SB1218A0L (BUFFER)
R3011 1K
C2
R3008 560
L3004 12u
L3005 22u
C3010 68P
C3011 39P
R3009 10K
R3010 100
Q3002 2SB1218A0L (BUFFER)
R3024 1K
C3
R3025 560
L3010 4.7u
L3014 12u
C3018 22P
C3020 33P
R3029 10K
R3028 100
Q3003 2SA153200L (BUFFER)
Q3011 2SC393000L (PROGRESSIVE)
R3106 1K
L3023 12u
C3019 33P
R3107 47K
QR3010 UNR521300L (PROGRESSIVE)
QR3001 UNR521100L (PROGRESSIVE)
C3001 47P
QR3009 UNR521300L (PROGRESSIVE)
QR3002 UNR521300L (PROGRESSIVE)
QR3007 UNR521300L (PROGRESSIVE)
R3043 1K
R3044 150
R3045 150
Q3008 2SD1819A0L (BUFFER)
L3015 4.7u
C3002 47P
C3072 47P
R3046 2200
QR3004 UNR521100L (PROGRESSIVE)
C5
R3001 560
L3019 6.8u
L3020 12u
C3005 56P
C3016 22P
C3006 39P
R3002 10K
R3042 100
Q3007 2SB1218A0L (BUFFER)
QR3008 UNR521300L (PROGRESSIVE)
R3048 1K
R3049 150
R3050 150
Q3010 2SD1819A0L (BUFFER)
L3016 4.7u
C3003 47P
C3073 47P
R3051 2200
QR3005 UNR521100L (PROGRESSIVE)
C4
R3052 560
L3021 6.8u
L3022 12u
C3074 56P
C3014 22P
C3075 39P
R3053 10K
R3047 100
Q3009 2SB1218A0L (BUFFER)
QR3006 UNR521300L (PROGRESSIVE)
C6
C10
A36 A37 A38
A27 A32 A29 A26 A28 A38 A37 A36
R3084 9.1K
R3085 9.1K
R3070 0
R3086 0
C3906 0.01
C3905 0.01
C3058 56P
C3055 6V1000
C3056 6V100
C3059 6V1000
C3060 6V100
C3061 6V1000
C3062 6V100
C3063 6V330
C3064 6V330
L3012 4.7u
C3057 0.1
COUT TEST MIXOUT MIXFB YTRAP GND YOUT YFB GND PYOUT PYFB GND PbOUT PrOUT
75Ω
6dB
1.5-6M BPF
CLAMP
6M LPF
12M LPF
CTRAP MUTE1 CIN GND YIN VCC GND PYIN GND PYTRAP VCC PbIN GND PrIN MUTE2 PYTRAP
20K
IC3005
C9ZB00000377
(VIDEO DRIVE)
L3007 4.7u
C3043 56P
K3001
L3008 22u
C3047 0.01
C3046 6V47
C3044 0.1
C3045 1
C3048 1
L3009 4.7u
C3049 15P
C3052 6V47
C3053 6V47
A16 A15 A14 A13 A31 A30 A35
L1 IN L
L3 IN L
L1 IN R
L3 IN R
CPNCIN DM
V YIN DM
L123 SWIDE
GND
AU GND
A B C D P M T
12 13 14 15 16 17 18 19 20 21 22

DMR-E100H GCS/GN/GH/GK
Video I/O Section(Main P.C.B.(3/5)) Schematic Diagram(V)

NOTE:DO NOT USE THE PART NUMBER SHOWN ON THIS DRAWING FOR ORDERING.
THE CORRECT PART NUMBER IS SHOWN IN THE PARTS LIST, AND MAY BE
SLIGHTLY DIFFERNT OR AMENDED SINCE THIS DRAWING WAS PREPARED.

DMR-E100H GCS/GN/GH/GK
Video I/O Section(Main P.C.B.(3/5))
Schematic Diagram(V)

Ref No.	PS9001																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
REC	1.6	3.2	0	4.9	4.9	0	-	0	-	0	-	0	-	0	1.1	1.0	0	1.0	0	1.1
PLAY	1.6	3.2	0.2	4.9	4.9	0	-	0	-	0	-	0	-	0	1.1	1.0	0	1.0	0	1.1
STOP	1.6	3.2	0.2	4.9	4.9	0	-	0	-	0	-	0	-	0	1.1	1.0	0	1.0	0	1.1
Ref No.	PS9001																			
MODE	21	22	23	24	25	26	27	28	29	30										
REC	0	1.5	0	1.7	1.8	0.1	0	1.6	0	1.9										
PLAY	0	1.5	0	1.7	1.7	0.1	0	1.6	0	1.9										
STOP	0	1.5	0	1.7	1.7	0.1	0	1.6	0	1.9										
Ref No.	PS9002																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
REC	5.0	3.2	5.7	1.5	1.8	1.8	0	4.7	-	3.1	0	2.5	0	2.5	0	0	1.6	0	2.4	0
PLAY	5.0	3.2	5.7	1.5	1.8	1.8	0	4.7	-	3.1	0	2.5	0	2.5	0	0	1.6	0	2.4	0
STOP	5.0	3.2	5.7	1.5	1.8	1.8	0	4.7	-	3.1	0	2.5	0	2.5	0	0	1.6	0	2.4	0
Ref No.	PS9002																			
MODE	21	22	23	24	25	26	27	28	29	30										
REC	2.5	5.0	2.2	0	0	1.8	1.5	5.7	3.2	5.0										
PLAY	2.5	5.0	2.2	0	0	1.8	1.5	5.7	3.2	5.0										
STOP	2.5	5.0	2.2	0	0	1.8	1.5	5.7	3.2	5.0										
Ref No.	PS9003																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
REC	0	-	-	-	3.2	5.0	-	5.0	0.1	5.0	0.1	2.5	0	0	3.2	3.3	-	1.8	2.5	0
PLAY	0	-	-	-	3.2	5.0	-	5.0	0.1	5.0	0.1	2.5	0	0	3.2	3.3	-	1.8	2.5	0
STOP	0	-	-	-	3.2	5.0	-	5.0	0.1	5.0	0.1	2.5	0	0	3.2	3.3	-	1.8	2.5	0
Ref No.	PS9003																			
MODE	21	22	23	24	25	26	27	28	29	30										
REC	5.0	5.0	5.0	-	5.0	4.8	5.0	-	-	3.2										
PLAY	5.0	5.0	5.0	-	5.0	4.8	5.0	-	-	3.2										
STOP	5.0	5.0	5.0	-	5.0	0.2	5.0	-	-	3.2										

WF No. PP9701-15 (REC/PLAY)  0.9Vp-p(20usec/div)	WF No. PP9701-16 (REC/PLAY)  0.6Vp-p(20usec/div)	WF No. PP9701-18 (REC/PLAY)  0.6Vp-p(20usec/div)
WF No. PP9701-20 (REC/PLAY)  0.9Vp-p(20usec/div)	WF No. PP9701-22 (REC/PLAY)  0.8Vp-p(20usec/div)	WF No. PP9701-28 (REC/PLAY)  2.0Vp-p(20usec/div)
WF No. PP9702-12 (REC/PLAY)  1.7Vp-p(1msec/div)	WF No. PP9702-14 (REC/PLAY)  1.7Vp-p(1msec/div)	WF No. PP9702-21 (REC/PLAY)  1.7Vp-p(1msec/div)
WF No. PP9702-19 (REC/PLAY)  1.7Vp-p(1msec/div)		

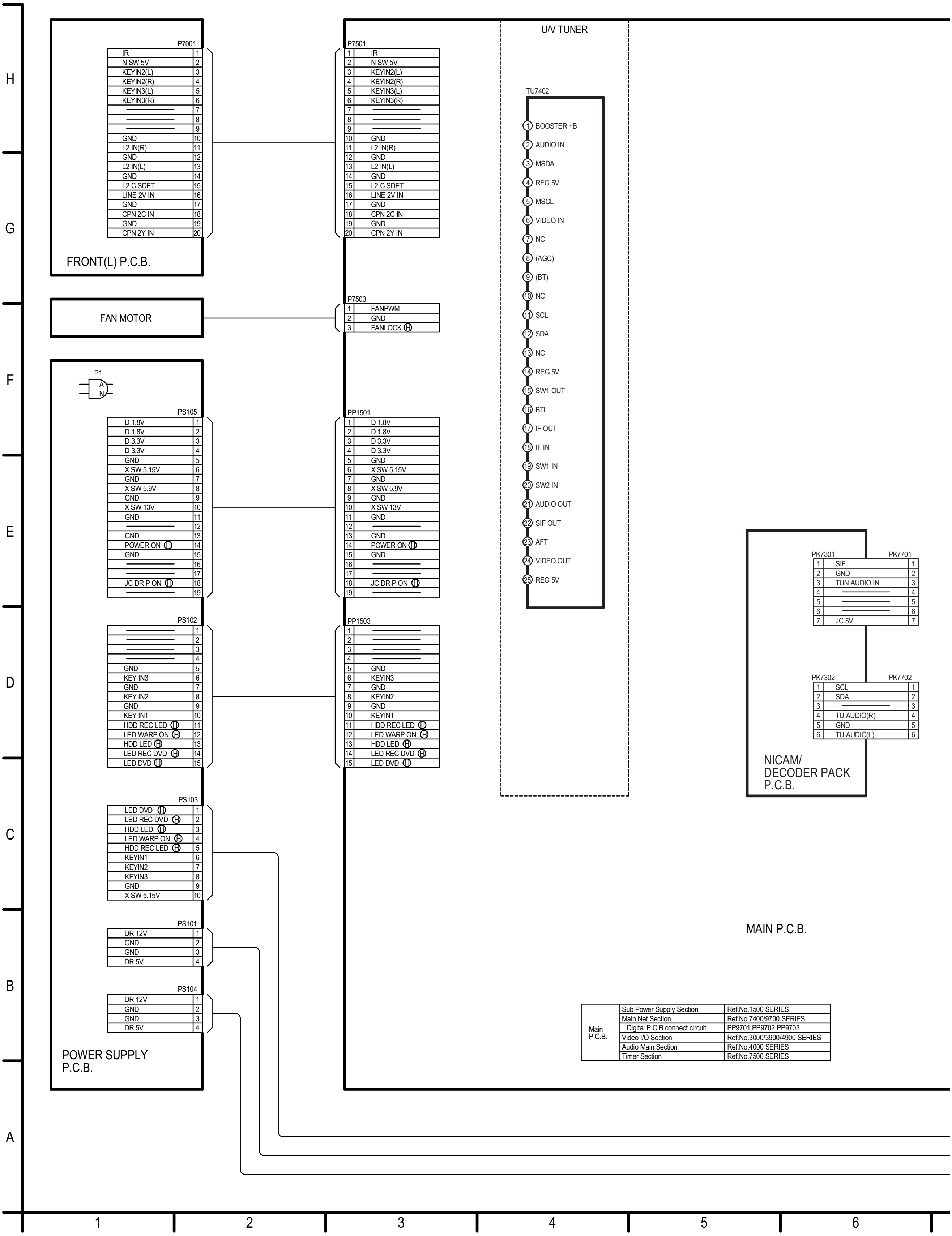
Ref No.	IC7301																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
REC	2.5	2.5	5.0	0	0	4.9	0	-	0	0.7	0	0.3	0	1.5	1.5	0	0	2.0	0	0
PLAY	2.5	2.5	5.0	0	0	4.9	0	-	0	0.4	0	0.3	0	1.5	1.5	0	0	2.0	0	0
STOP	2.5	2.5	5.0	0	0	4.9	0	-	0	0.4	0	0.4	0	1.5	1.5	0	0	2.0	0	0
Ref No.	IC7301																			
MODE	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
REC	3.2	0	1.9	1.9	1.9	4.9	0	5.0	4.4	4.2	0.5	0.5	0.5	0.6	5.0	0	4.9	2.5	2.5	2.5
PLAY	3.2	0	1.9	1.9	1.9	4.9	0	5.0	4.4	4.2	0.5	0.5	0.5	0.5	5.0	0	4.9	2.5	2.5	2.5
STOP	3.2	0	1.9	1.9	1.9	4.9	0	5.0	4.4	4.2	0.7	0.7	0.6	0.6	5.0	0	4.9	2.5	2.5	2.5
Ref No.	IC7301																			
MODE	41	42	43	44																
REC	2.5	4.9	2.5	0																
PLAY	2.5	4.9	2.5	0																
STOP	2.5	4.9	2.5	0																
Ref No.	IC7302																			
MODE	1	2	3																	
REC	5.0	0	4.9																	
PLAY	5.0	0	4.9																	
STOP	5.0	0	4.9																	

Ref No.	QR7801				QR7802				QR7803				QR7804				QR7805			
MODE	E	C	B		E	C	B		E	C	B		E	C	B		E	C	B	
REC	0	3.5	0		0	0	4.9		0	0	4.9		0	3.5	0		0	3.8	0	
PLAY	0	3.5	0		0	0	4.9		0	3.9	0		0	3.5	0		0	3.8	0	
STOP	0	3.5	0		0	0	4.9		0	3.9	0		0	3.5	0		0	3.8	0	

Ref No.	IC1									IC102				IC104						
MODE	1	2	3	4	5	6	7	8		K	A	R		K	A	R				
REC	2.2	2.5	0.1	2.0	0	11.1	15.7	5.0		4.3	0	2.5		7.1	0	2.4				
PLAY	2.2	2.5	0.1	2.0	0	11.1	15.7	5.0		4.3	0	2.5		7.1	0	2.4				
STOP	2.2	2.5	0.1	2.0	0	11.1	15.7	5.0		4.3	0	2.5		7.1	0	2.4				
Ref No.	IC105					IC301														
MODE	1	2	3	4		1	2	3	4	5	6	7	8							
REC	14.0	12.0	0	7.0		13.1	1.7	1.7	0	1.2	1.2	2.6	14.0							
PLAY	14.0	12.0	0	7.0		13.1	1.7	1.7	0	1.2	1.2	2.6	14.0							
STOP	14.0	12.0	0	7.0		13.1	1.7	1.7	0	1.2	1.2	2.6	14.0							
Ref No.	IC302																			
MODE	1	2	3	4	5	6	7	8												
REC	13.1	3.2	3.3	0	1.2	1.2	4.2	14.0												
PLAY	13.1	3.2	3.3	0	1.2	1.2	4.2	14.0												
STOP	13.1	3.2	3.3	0	1.2	1.2	4.2	14.0												
Ref No.	Q1				Q2				Q3				Q4				Q101			
MODE	E	C	B		E	C	B		S	D	G		E	C	B		E	C	B	
REC	0	0	0.5		0	2.2	0.1		0	470	9.8		0	2.2	0		5.9	0.3	5.9	
PLAY	0	0	0.5		0	2.2	0.1		0	360	9.8		0	2.2	0		5.9	0.3	5.9	
STOP	0	0	0.5		0	2.2	0.1		0	320	9.8		0	2.2	0		5.9	0.3	5.9	
Ref No.	Q102				Q104				Q105				Q106							
MODE	E	C	B		E	C	B		E	C	B		E	C	B					
REC	0	5.9	0.3		0	0	0.7		0.7	0.7	2.6		14.0	14.0	0					
PLAY	0	5.9	0.3		0	0	0.6		0.6	0.7	2.6		14.0	14.0	0					
STOP	0	5.9	0.3		0	0	0.6		0.6	0.7	2.6		14.0	14.0	0					
Ref No.	Q107									Q108				Q109				Q113		
MODE	1	2	3	4	5	6	7	8		E	C	B		E	C	B		S	D	G
REC	5.1	5.1	5.1	11.6	5.1	5.1	5.1	5.1		14.0	14.0	13.3		0	0	0.6		5.2	5.8	7.1
PLAY	5.1	5.1	5.1	11.6	5.1	5.1	5.1	5.1		14.0	14.0	13.3		0	0	0.6		5.2	5.8	7.1
STOP	5.1	5.1	5.1	11.6	5.1	5.1	5.1	5.1		14.0	14.0	13.3		0	0	0.6		5.2	5.8	7.1
Ref No.	Q115				Q301				Q302				Q303				Q305			
MODE	E	C	B		S	D	G		E	C	B		E	C	B		E	C	B	
REC	14.0	14.0	13.3		1.9	4.5	5.1		4.9	14.0	4.4		4.9	0	4.4		14.0	4.4	13.7	
PLAY	14.0	14.0	13.3		1.9	4.4	5.1		5.1	14.0	4.6		5.1	0	4.5		14.0	4.5	13.7	
STOP	14.0	14.0	13.3		1.9	4.3	5.1		5.0	14.0	4.5		5.0	0	4.5		14.0	4.5	13.7	
Ref No.	Q307				Q308				Q310				Q311				Q312			
MODE	E	C	B		E	C	B		S	D	G		E	C	B		E	C	B	
REC	0	9.4	0.1		14.0	13.7	13.7		3.7	6.2	7.4		7.6	14.0	7.1		7.6	0	7.2	
PLAY	0	9.3	0.1		14.0	13.7	13.7		3.7	6.2	7.4		7.4	14.0	7.0		7.4	0	7.0	
STOP	0	9.3	0.1		14.0	13.7	13.7		3.7	6.2	7.4		7.4	14.0	6.9		7.4	0	6.9	
Ref No.	Q313				Q314				Q315											
MODE	E	C	B		E	C	B		E	C	B									
REC	14.0	7.1	13.6		0	7.2	0.2		14.0	13.6	13.7									
PLAY	14.0	7.0	13.5		0	7.2	0.2		14.0	13.6	13.7									
STOP	14.0	6.9	13.6		0	7.2	0.2		14.0	13.6	13.7									

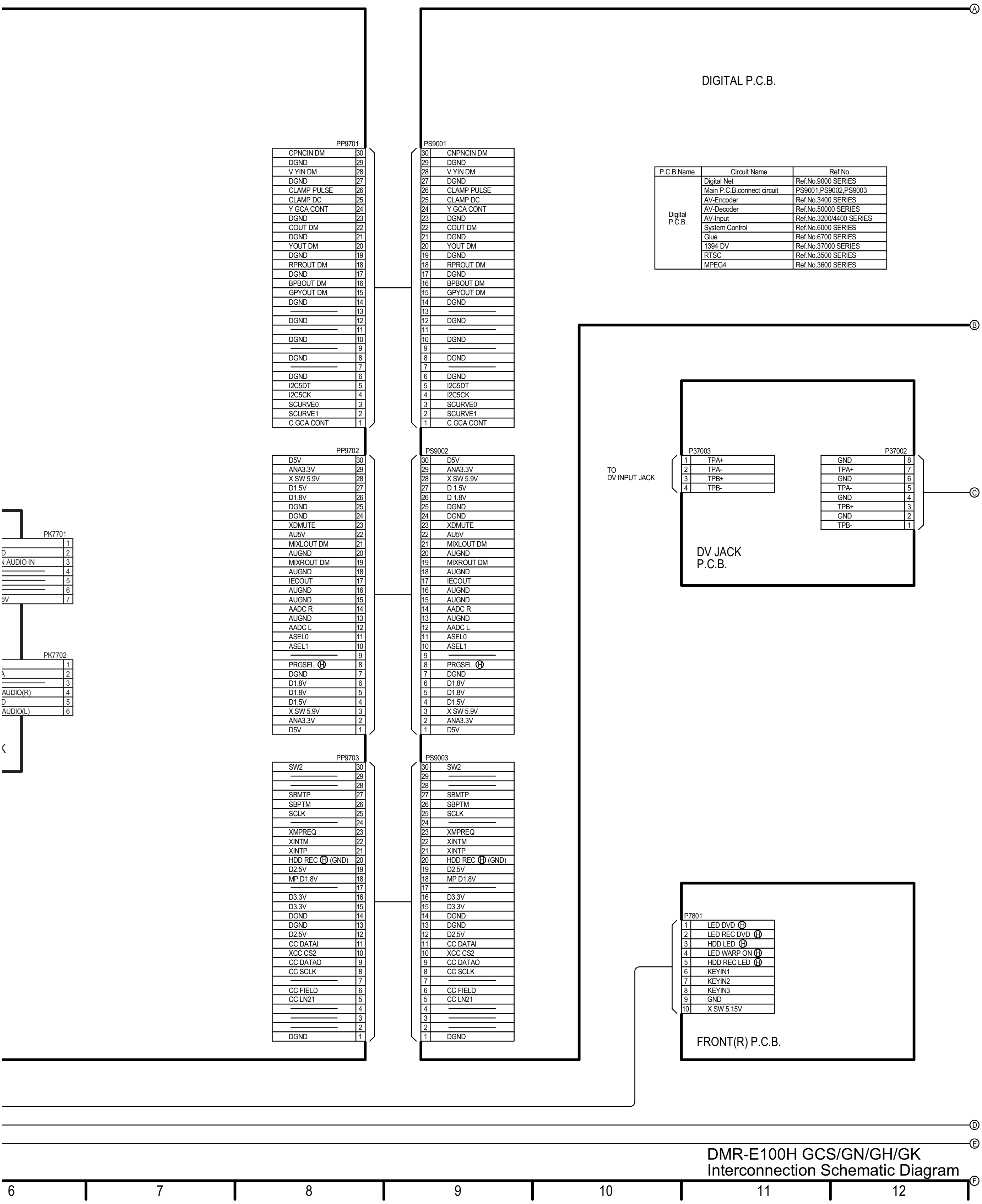
14 Schematic Diagram

14.1. Interconnection Schematic Diagram



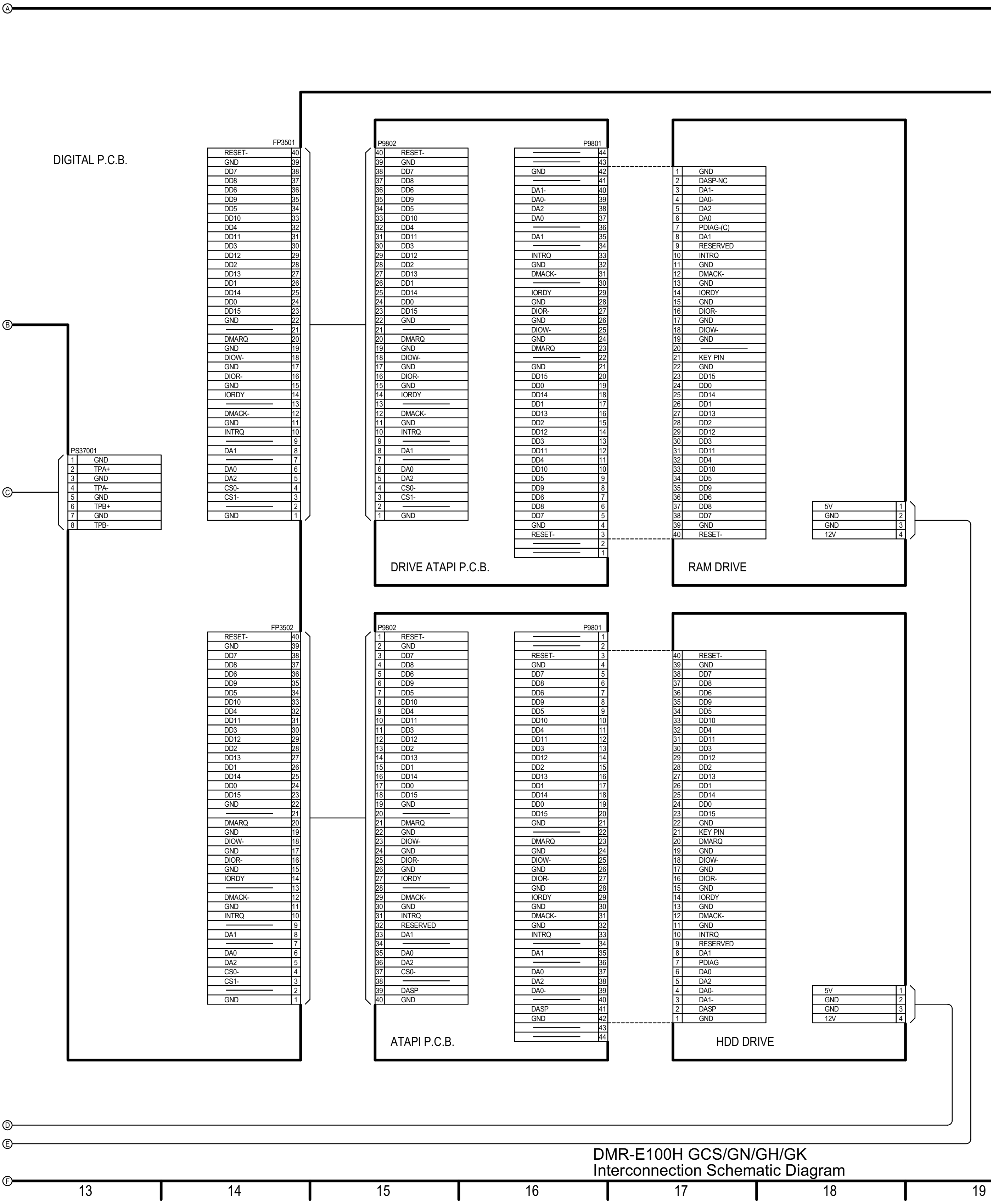
H
G
F
E
D
C
B
A
1
2
3
4
5
6
FRONT(L) P.C.B.
P7001
IR
N SW 5V
KEYIN2(L)
KEYIN2(R)
KEYIN3(L)
KEYIN3(R)
GND
L2 IN(R)
L2 IN(L)
L2 C SDET
LINE 2V IN
CPN 2C IN
CPN 2Y IN
P7501
FAN MOTOR
P7503
FANPWM
GND
FANLOCK Ⓗ
POWER SUPPLY P.C.B.
P1
A
N
PS105
PP1501
D 1.8V
D 3.3V
X SW 5.15V
X SW 5.9V
X SW 13V
POWER ON Ⓗ
JC DR P ON Ⓗ
PS102
PP1503
KEY IN3
KEY IN2
KEY IN1
KEYIN3
KEYIN2
KEYIN1
HDD REC LED Ⓗ
LED WARP ON Ⓗ
HDD LED Ⓗ
LED REC DVD Ⓗ
LED DVD Ⓗ
PS103
PS101
DR 12V
DR 5V
PS104
U/V TUNER
TU7402
① BOOSTER +B
② AUDIO IN
③ MSDA
④ REG 5V
⑤ MSCL
⑥ VIDEO IN
⑦ NC
⑧ (AGC)
⑨ (BT)
⑩ NC
⑪ SCL
⑫ SDA
⑬ NC
⑭ REG 5V
⑮ SW1 OUT
⑯ BTL
⑰ IF OUT
⑱ IF IN
⑲ SW1 IN
⑳ SW2 IN
㉑ AUDIO OUT
㉒ SIF OUT
㉓ AFT
㉔ VIDEO OUT
㉕ REG 5V
PK7301
PK7701
SIF
TUN AUDIO IN
JC 5V
PK7302
PK7702
SCL
SDA
TU AUDIO(R)
TU AUDIO(L)
NICAM/ DECODER PACK P.C.B.
MAIN P.C.B.

Main P.C.B.	Sub Power Supply Section	Ref.No.1500 SERIES
	Main Net Section	Ref.No.7400/9700 SERIES
	Digital P.C.B.connect circuit	PP9701,PP9702,PP9703
	Video I/O Section	Ref.No.3000/3900/4900 SERIES
	Audio Main Section	Ref.No.4000 SERIES
	Timer Section	Ref.No.7500 SERIES

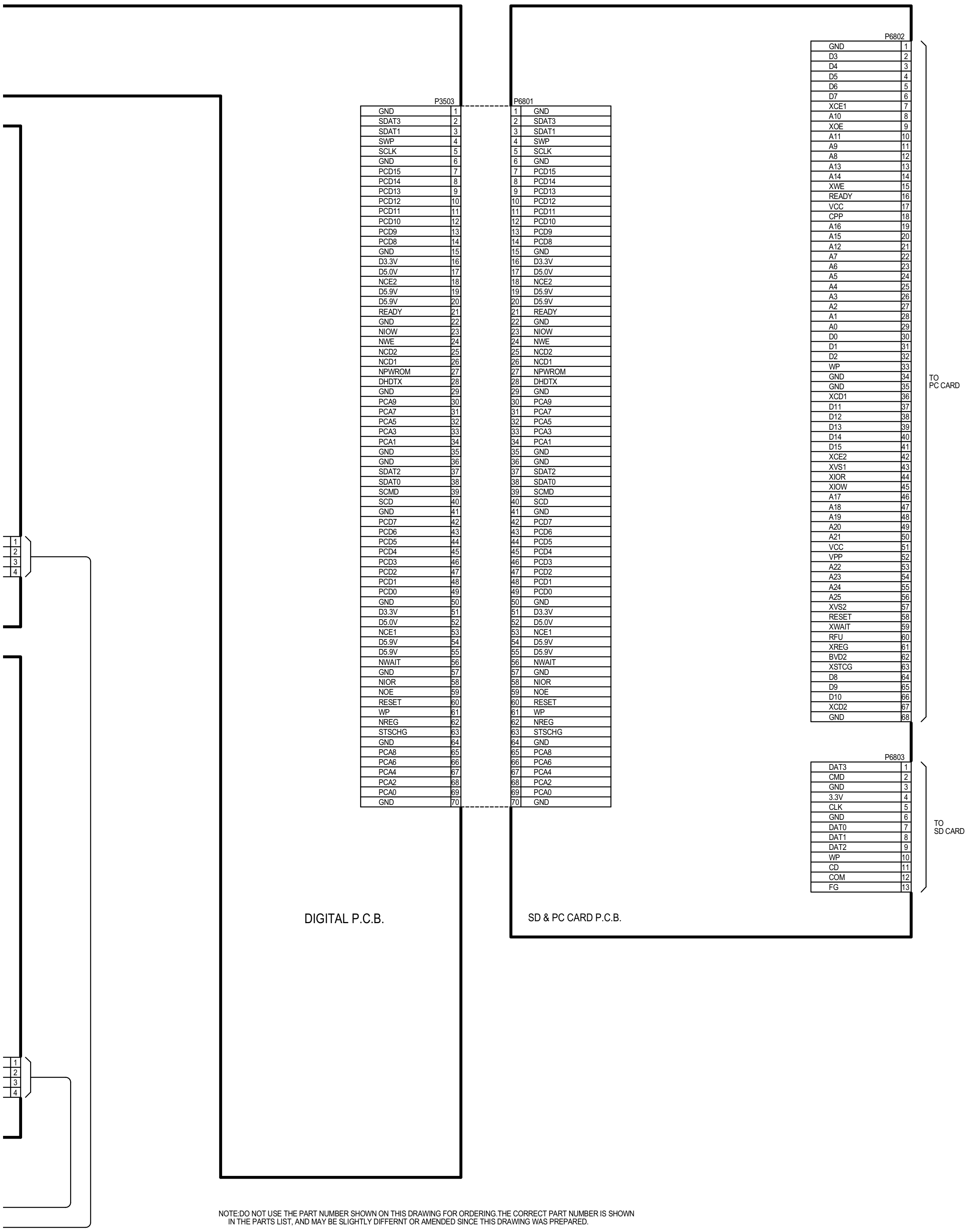

DIGITAL P.C.B.
PP9701
30 CPNCIN DM
29 DGND
28 V YIN DM
27 DGND
26 CLAMP PULSE
25 CLAMP DC
24 Y GCA CONT
23 DGND
22 COUT DM
21 DGND
20 YOUT DM
19 DGND
18 RPROUT DM
17 DGND
16 BPBOUT DM
15 GPYOUT DM
14 DGND
13
12 DGND
11
10 DGND
9
8 DGND
7
6 DGND
5 I2C5DT
4 I2C5CK
3 SCURVE0
2 SCURVE1
1 C GCA CONT
PS9001
30 CNPNCIN DM
29 DGND
28 V YIN DM
27 DGND
26 CLAMP PULSE
25 CLAMP DC
24 Y GCA CONT
23 DGND
22 COUT DM
21 DGND
20 YOUT DM
19 DGND
18 RPROUT DM
17 DGND
16 BPBOUT DM
15 GPYOUT DM
14 DGND
13
12 DGND
11
10 DGND
9
8 DGND
7
6 DGND
5 I2C5DT
4 I2C5CK
3 SCURVE0
2 SCURVE1
1 C GCA CONT
PP9702
30 D5V
29 ANA3.3V
28 X SW 5.9V
27 D1.5V
26 D1.8V
25 DGND
24 DGND
23 XDMUTE
22 AU5V
21 MIXLOUT DM
20 AUGND
19 MIXROUT DM
18 AUGND
17 IECOUT
16 AUGND
15 AUGND
14 AADC R
13 AUGND
12 AADC L
11 ASEL0
10 ASEL1
9
8 PRGSEL Ⓗ
7 DGND
6 D1.8V
5 D1.8V
4 D1.5V
3 X SW 5.9V
2 ANA3.3V
1 D5V
PS9002
30 D5V
29 ANA3.3V
28 X SW 5.9V
27 D 1.5V
26 D 1.8V
25 DGND
24 DGND
23 XDMUTE
22 AU5V
21 MIXLOUT DM
20 AUGND
19 MIXROUT DM
18 AUGND
17 IECOUT
16 AUGND
15 AUGND
14 AADC R
13 AUGND
12 AADC L
11 ASEL0
10 ASEL1
9
8 PRGSEL Ⓗ
7 DGND
6 D1.8V
5 D1.8V
4 D1.5V
3 X SW 5.9V
2 ANA3.3V
1 D5V
PP9703
30 SW2
29
28
27 SBMTP
26 SBPTM
25 SCLK
24
23 XMPREQ
22 XINTM
21 XINTP
20 HDD REC Ⓗ (GND)
19 D2.5V
18 MP D1.8V
17
16 D3.3V
15 D3.3V
14 DGND
13 DGND
12 D2.5V
11 CC DATAI
10 XCC CS2
9 CC DATAO
8 CC SCLK
7
6 CC FIELD
5 CC LN21
4
3
2
1 DGND
PS9003
30 SW2
29
28
27 SBMTP
26 SBPTM
25 SCLK
24
23 XMPREQ
22 XINTM
21 XINTP
20 HDD REC Ⓗ (GND)
19 D2.5V
18 MP D1.8V
17
16 D3.3V
15 D3.3V
14 DGND
13 DGND
12 D2.5V
11 CC DATAI
10 XCC CS2
9 CC DATAO
8 CC SCLK
7
6 CC FIELD
5 CC LN21
4
3
2
1 DGND
PK7701
1
D 2
N AUDIO IN 3
4
5
6
5V 7
PK7702
1
A 2
3
AUDIO(R) 4
D 5
AUDIO(L) 6
K
TO
DV INPUT JACK
P37003
1 TPA+
2 TPA-
3 TPB+
4 TPB-
P37002
GND 8
TPA+ 7
GND 6
TPA- 5
GND 4
TPB+ 3
GND 2
TPB- 1
DV JACK
P.C.B.
P7801
1 LED DVD Ⓗ
2 LED REC DVD Ⓗ
3 HDD LED Ⓗ
4 LED WARP ON Ⓗ
5 HDD REC LED Ⓗ
6 KEYIN1
7 KEYIN2
8 KEYIN3
9 GND
10 X SW 5.15V
FRONT(R) P.C.B.
Ⓐ
Ⓑ
Ⓒ
Ⓓ
Ⓔ
Ⓕ
6
7
8
9
10
11
12

P.C.B.Name	Circuit Name	Ref.No.
Digital P.C.B.	Digital Net	Ref.No.9000 SERIES
	Main P.C.B.connect circuit	PS9001,PS9002,PS9003
	AV-Encoder	Ref.No.3400 SERIES
	AV-Decoder	Ref.No.50000 SERIES
	AV-Input	Ref.No.3200/4400 SERIES
	System Control	Ref.No.6000 SERIES
	Glue	Ref.No.6700 SERIES
	1394 DV	Ref.No.37000 SERIES
	RTSC	Ref.No.3500 SERIES
	MPEG4	Ref.No.3600 SERIES

DMR-E100H GCS/GN/GH/GK
Interconnection Schematic Diagram


DIGITAL P.C.B.
FP3501
FP3502
PS37001
GND
TPA+
TPA-
TPB+
TPB-
DRIVE ATAPI P.C.B.
P9802
P9801
RAM DRIVE
ATAPI P.C.B.
HDD DRIVE
5V
GND
12V
RESET-
DD0–DD15
DMARQ
DIOW-
DIOR-
IORDY
DMACK-
INTRQ
DA0
DA1
DA2
CS0-
CS1-
KEY PIN
DASP
PDIAG
RESERVED
A
B
C
D
E
F
13
14
15
16
17
18
19

DMR-E100H GCS/GN/GH/GK
Interconnection Schematic Diagram

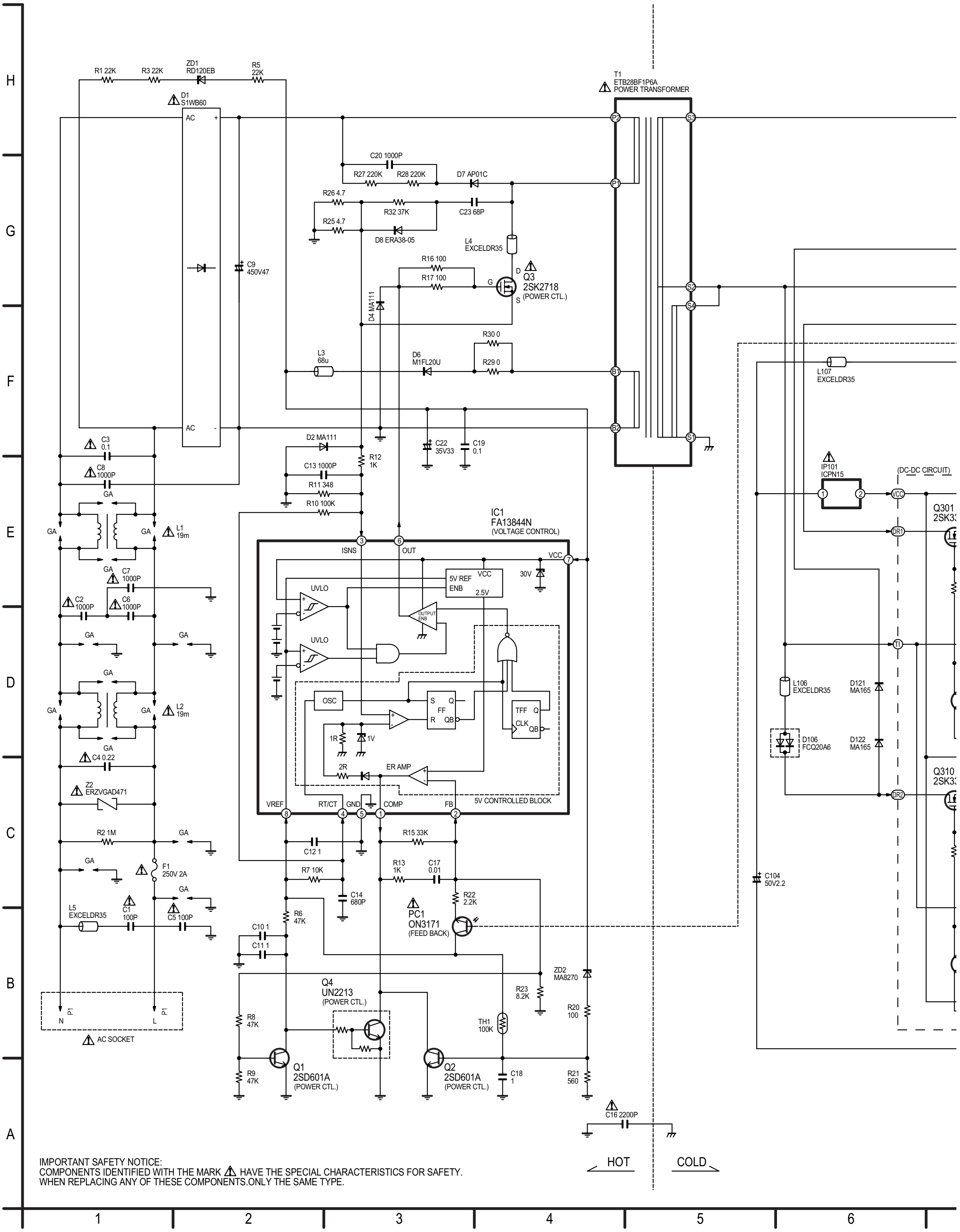

P3503
1 GND
2 SDAT3
3 SDAT1
4 SWP
5 SCLK
6 GND
7 PCD15
8 PCD14
9 PCD13
10 PCD12
11 PCD11
12 PCD10
13 PCD9
14 PCD8
15 GND
16 D3.3V
17 D5.0V
18 NCE2
19 D5.9V
20 D5.9V
21 READY
22 GND
23 NIOW
24 NWE
25 NCD2
26 NCD1
27 NPWROM
28 DHDTX
29 GND
30 PCA9
31 PCA7
32 PCA5
33 PCA3
34 PCA1
35 GND
36 GND
37 SDAT2
38 SDAT0
39 SCMD
40 SCD
41 GND
42 PCD7
43 PCD6
44 PCD5
45 PCD4
46 PCD3
47 PCD2
48 PCD1
49 PCD0
50 GND
51 D3.3V
52 D5.0V
53 NCE1
54 D5.9V
55 D5.9V
56 NWAIT
57 GND
58 NIOR
59 NOE
60 RESET
61 WP
62 NREG
63 STSCHG
64 GND
65 PCA8
66 PCA6
67 PCA4
68 PCA2
69 PCA0
70 GND
P6801
1 GND
2 SDAT3
3 SDAT1
4 SWP
5 SCLK
6 GND
7 PCD15
8 PCD14
9 PCD13
10 PCD12
11 PCD11
12 PCD10
13 PCD9
14 PCD8
15 GND
16 D3.3V
17 D5.0V
18 NCE2
19 D5.9V
20 D5.9V
21 READY
22 GND
23 NIOW
24 NWE
25 NCD2
26 NCD1
27 NPWROM
28 DHDTX
29 GND
30 PCA9
31 PCA7
32 PCA5
33 PCA3
34 PCA1
35 GND
36 GND
37 SDAT2
38 SDAT0
39 SCMD
40 SCD
41 GND
42 PCD7
43 PCD6
44 PCD5
45 PCD4
46 PCD3
47 PCD2
48 PCD1
49 PCD0
50 GND
51 D3.3V
52 D5.0V
53 NCE1
54 D5.9V
55 D5.9V
56 NWAIT
57 GND
58 NIOR
59 NOE
60 RESET
61 WP
62 NREG
63 STSCHG
64 GND
65 PCA8
66 PCA6
67 PCA4
68 PCA2
69 PCA0
70 GND
P6802
GND 1
D3 2
D4 3
D5 4
D6 5
D7 6
XCE1 7
A10 8
XOE 9
A11 10
A9 11
A8 12
A13 13
A14 14
XWE 15
READY 16
VCC 17
CPP 18
A16 19
A15 20
A12 21
A7 22
A6 23
A5 24
A4 25
A3 26
A2 27
A1 28
A0 29
D0 30
D1 31
D2 32
WP 33
GND 34
GND 35
XCD1 36
D11 37
D12 38
D13 39
D14 40
D15 41
XCE2 42
XVS1 43
XIOR 44
XIOW 45
A17 46
A18 47
A19 48
A20 49
A21 50
VCC 51
VPP 52
A22 53
A23 54
A24 55
A25 56
XVS2 57
RESET 58
XWAIT 59
RFU 60
XREG 61
BVD2 62
XSTCG 63
D8 64
D9 65
D10 66
XCD2 67
GND 68
TO
PC CARD
P6803
DAT3 1
CMD 2
GND 3
3.3V 4
CLK 5
GND 6
DAT0 7
DAT1 8
DAT2 9
WP 10
CD 11
COM 12
FG 13
TO
SD CARD
1
2
3
4
1
2
3
4
DIGITAL P.C.B.
SD & PC CARD P.C.B.

NOTE:DO NOT USE THE PART NUMBER SHOWN ON THIS DRAWING FOR ORDERING.THE CORRECT PART NUMBER IS SHOWN IN THE PARTS LIST, AND MAY BE SLIGHTLY DIFFERNT OR AMENDED SINCE THIS DRAWING WAS PREPARED.

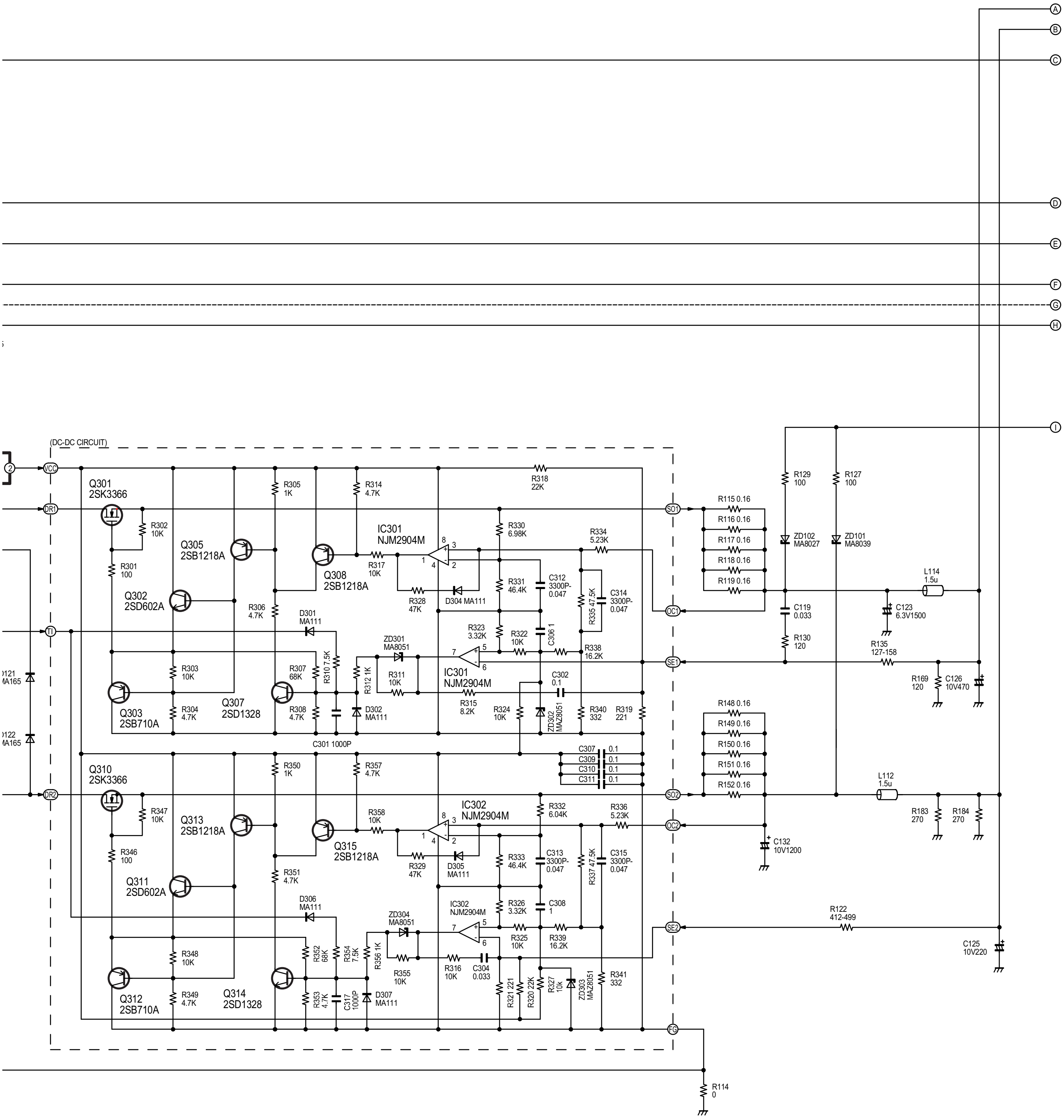
DMR-E100H GCS/GN/GH/GK
Interconnection Schematic Diagram

19 20 21 22 23 24

14.2. Main Power Supply Schematic Diagram


H
G
F
E
D
C
B
A
1
2
3
4
5
6
R1 22K
R3 22K
ZD1 RD120EB
R5 22K
D1 S1WB60
AC
+
-
C9 450V47
C20 1000P
R27 220K
R28 220K
D7 AP01C
R26 4.7
R32 37K
C23 68P
R25 4.7
D8 ERA38-05
L4 EXCELDR35
R16 100
R17 100
Q3 2SK2718 (POWER CTL.)
D
G
S
D4 MA111
R30 0
R29 0
L3 68u
D6 M1FL20U
T1 ETB28BF1P6A POWER TRANSFORMER
P2
P1
B1
B2
S3
S2
S4
S1
C3 0.1
C8 1000P
GA
L1 19m
C7 1000P
C2 1000P
C6 1000P
L2 19m
C4 0.22
Z2 ERZVGAD471
R2 1M
F1 250V 2A
L5 EXCELDR35
C1 100P
C5 100P
AC SOCKET
N
L
P1
D2 MA111
R12 1K
C13 1000P
R11 348
R10 100K
C22 35V33
C19 0.1
IC1 FA13844N (VOLTAGE CONTROL)
ISNS
OUT
VCC
UVLO
5V REF
ENB
2.5V
30V
OUTPUT ENB
OSC
S
Q
FF
R
QB
TFF
CLK
1R
1V
2R
ER AMP
5V CONTROLLED BLOCK
VREF
RT/CT
GND
COMP
FB
C12 1
R15 33K
R7 10K
C14 680P
R13 1K
C17 0.01
R22 2.2K
R6 47K
PC1 ON3171 (FEED BACK)
C10 1
C11 1
Q4 UN2213 (POWER CTL.)
ZD2 MA8270
R23 8.2K
R20 100
TH1 100K
R8 47K
R9 47K
Q1 2SD601A (POWER CTL.)
Q2 2SD601A (POWER CTL.)
C18 1
R21 560
C16 2200P
HOT
COLD
L107 EXCELDR35
IP101 ICPN15
(DC-DC CIRCUIT)
VCC
DR1
Q301 2SK3
T1
L106 EXCELDR35
D121 MA165
D106 FCQ20A6
D122 MA165
Q310 2SK3
DR2
C104 50V2.2

IMPORTANT SAFETY NOTICE:
COMPONENTS IDENTIFIED WITH THE MARK ⚠ HAVE THE SPECIAL CHARACTERISTICS FOR SAFETY.
WHEN REPLACING ANY OF THESE COMPONENTS.ONLY THE SAME TYPE.

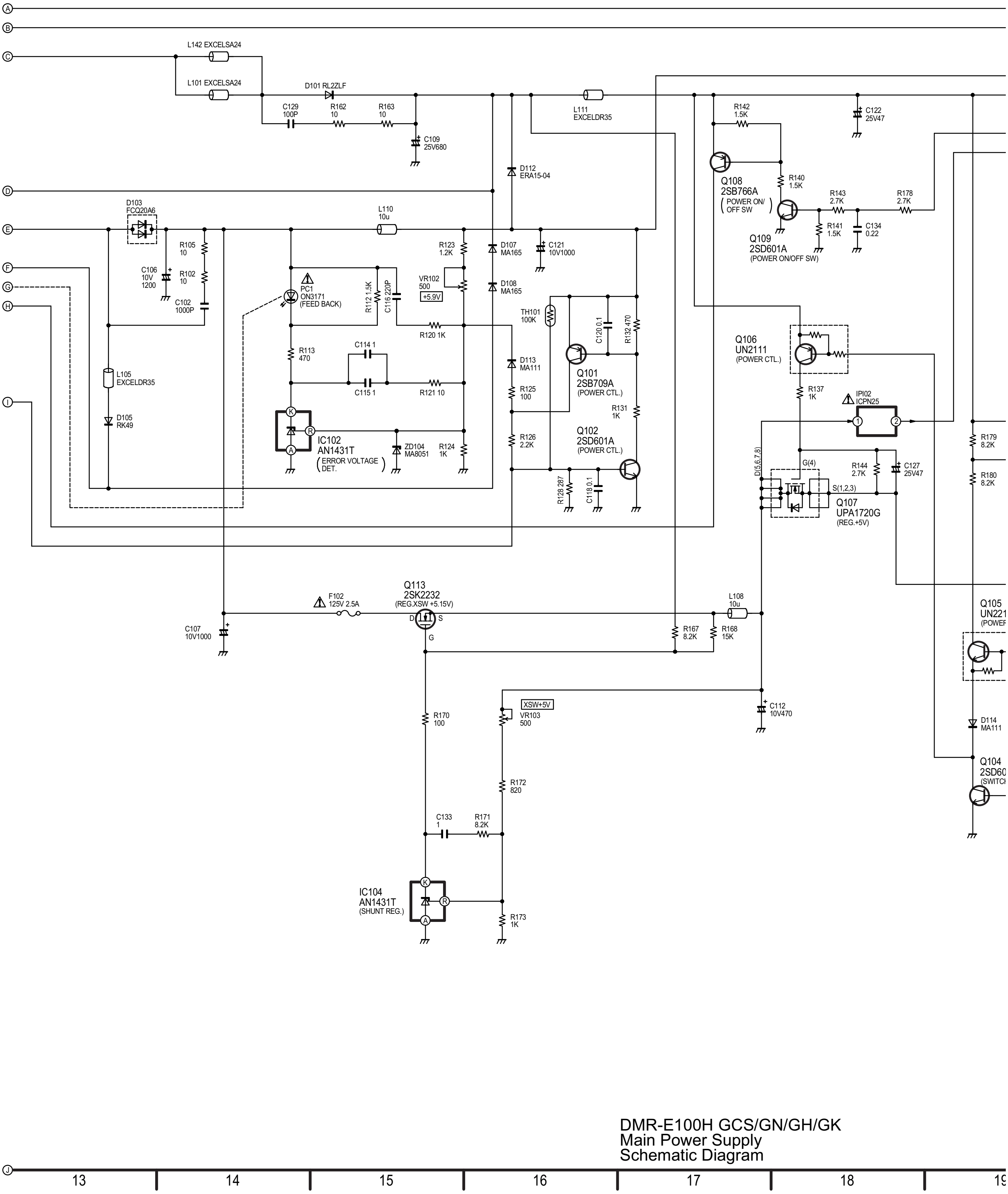

A
B
C
D
E
F
G
H
I
(DC-DC CIRCUIT)
2
VCC
DR1
TI
DR2
Q301
2SK3366
R302
10K
R301
100
Q302
2SD602A
Q303
2SB710A
R303
10K
R304
4.7K
Q305
2SB1218A
Q307
2SD1328
R305
1K
R306
4.7K
R307
68K
R308
4.7K
R310 7.5K
D301
MA111
Q308
2SB1218A
R314
4.7K
R317
10K
IC301
NJM2904M
R328
47K
D304 MA111
R312 1K
ZD301
MA8051
R311
10K
D302
MA111
C301 1000P
R315
8.2K
R318
22K
R330
6.98K
R331
46.4K
R323
3.32K
R322
10K
R324
10K
ZD302
MAZ8051
C312
3300P-
0.047
C306 1
C302
0.1
R334
5.23K
R335 47.5K
C314
3300P-
0.047
R338
16.2K
R340
332
R319
221
C307
C309
C310
C311
0.1
0.1
0.1
0.1
SO1
OC1
SE1
SO2
OC2
SE2
FG
R115 0.16
R116 0.16
R117 0.16
R118 0.16
R119 0.16
R148 0.16
R149 0.16
R150 0.16
R151 0.16
R152 0.16
R129
100
R127
100
ZD102
MA8027
ZD101
MA8039
C119
0.033
R130
120
L114
1.5u
C123
6.3V1500
R135
127-158
R169
120
C126
10V470
L112
1.5u
R183
270
R184
270
C132
10V1200
R122
412-499
C125
10V220
Q310
2SK3366
R347
10K
R346
100
Q311
2SD602A
Q312
2SB710A
R348
10K
R349
4.7K
Q313
2SB1218A
Q314
2SD1328
R350
1K
R351
4.7K
D306
MA111
R352
68K
R353
4.7K
R354
7.5K
C317
1000P
Q315
2SB1218A
R357
4.7K
R358
10K
IC302
NJM2904M
R329
47K
D305
MA111
ZD304
MA8051
R356 1K
D307
MA111
R355
10K
R316
10K
C304
0.033
R321 221
R320 22K
R327
10k
ZD303
MAZ8051
R332
6.04K
R333
46.4K
R326
3.32K
R325
10K
C313
3300P-
0.047
C308
1
R339
16.2K
R337 47.5K
C315
3300P-
0.047
R336
5.23K
R341
332
R114
0
D121
MA165
D122
MA165

NOTE:DO NOT USE THE PART NUMBER SHOWN ON THIS DRAWING FOR ORDERRING.THE CORRECT PART NUMBER IS SHOWN IN THE PARTS LIST,AND MAY BE SLIGHTLY DIFFERNT OR AMENDED SINCE THIS DRAWING WAS PREPARED.

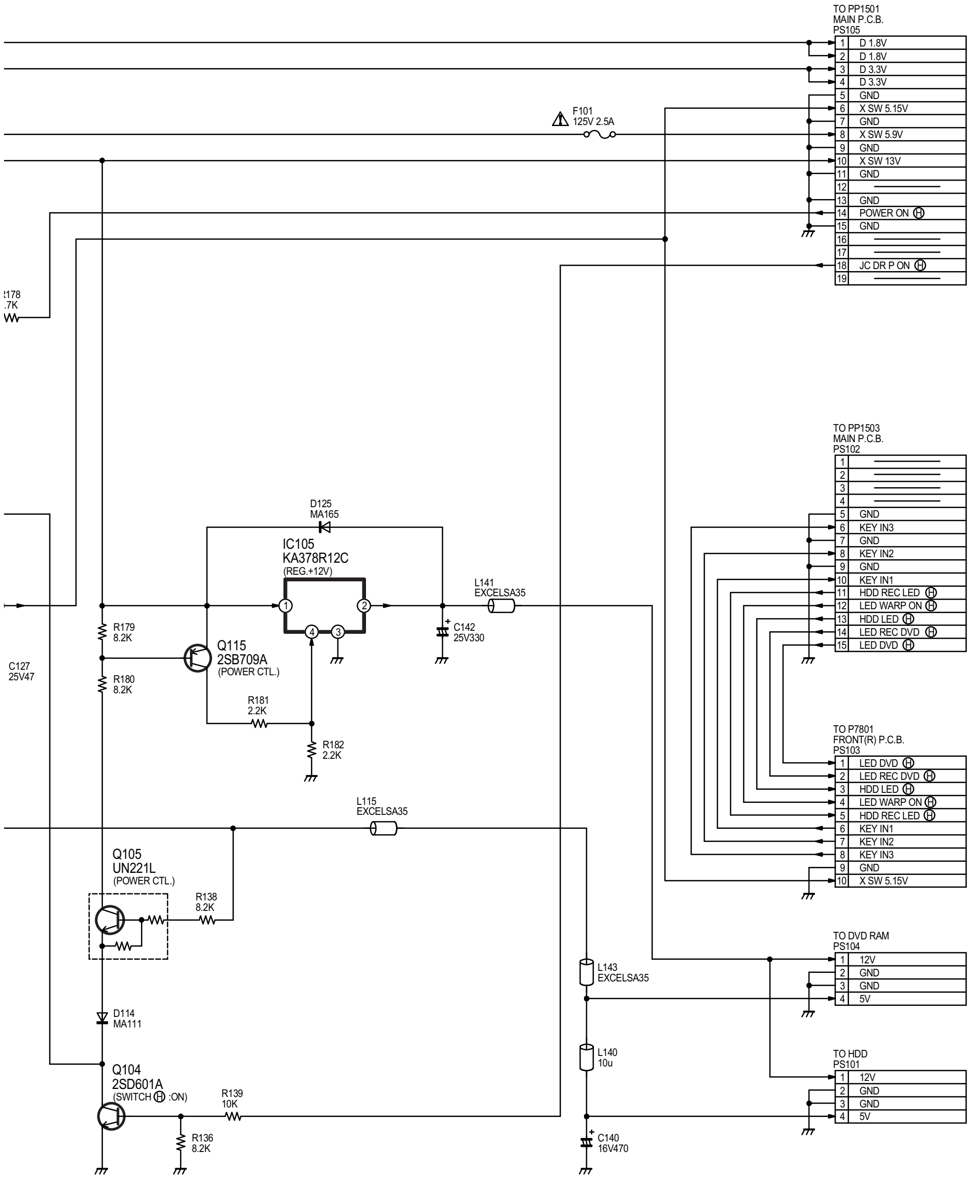
DMR-E100H GCS/GN/GH/GK
Main Power Supply
Schematic Diagram

J

7 8 9 10 11 12


A
B
C
D
E
F
G
H
I
J
L142 EXCELSA24
L101 EXCELSA24
D101 RL2ZLF
C129 100P
R162 10
R163 10
C109 25V680
L111 EXCELDR35
R142 1.5K
C122 25V47
D112 ERA15-04
Q108 2SB766A
(POWER ON/ OFF SW)
R140 1.5K
R143 2.7K
R178 2.7K
R141 1.5K
C134 0.22
Q109 2SD601A
(POWER ON/OFF SW)
D103 FCQ20A6
L110 10u
R105 10
R123 1.2K
D107 MA165
C121 10V1000
C106 10V 1200
R102 10
C102 1000P
PC1 ON3171
(FEED BACK)
R112 1.5K
C116 220P
VR102 500
+5.9V
D108 MA165
TH101 100K
C120 0.1
R132 470
R120 1K
Q106 UN2111
(POWER CTL.)
L105 EXCELDR35
R113 470
C114 1
C115 1
R121 10
D113 MA111
R125 100
Q101 2SB709A
(POWER CTL.)
R137 1K
IP102 ICPN25
D105 RK49
IC102 AN1431T
(ERROR VOLTAGE DET.)
ZD104 MA8051
R124 1K
R126 2.2K
R131 1K
Q102 2SD601A
(POWER CTL.)
R179 8.2K
D(5,6,7,8)
G(4)
R144 2.7K
C127 25V47
R180 8.2K
R128 287
C118 0.1
S(1,2,3)
Q107 UPA1720G
(REG.+5V)
Q113 2SK2232
(REG.XSW +5.15V)
F102 125V 2.5A
D S G
L108 10u
Q105 UN221
(POWEF
C107 10V1000
R167 8.2K
R168 15K
XSW+5V
VR103 500
C112 10V470
R170 100
D114 MA111
R172 820
Q104 2SD60
(SWITC
C133 1
R171 8.2K
IC104 AN1431T
(SHUNT REG.)
K R A
R173 1K
13
14
15
16
17
18
19

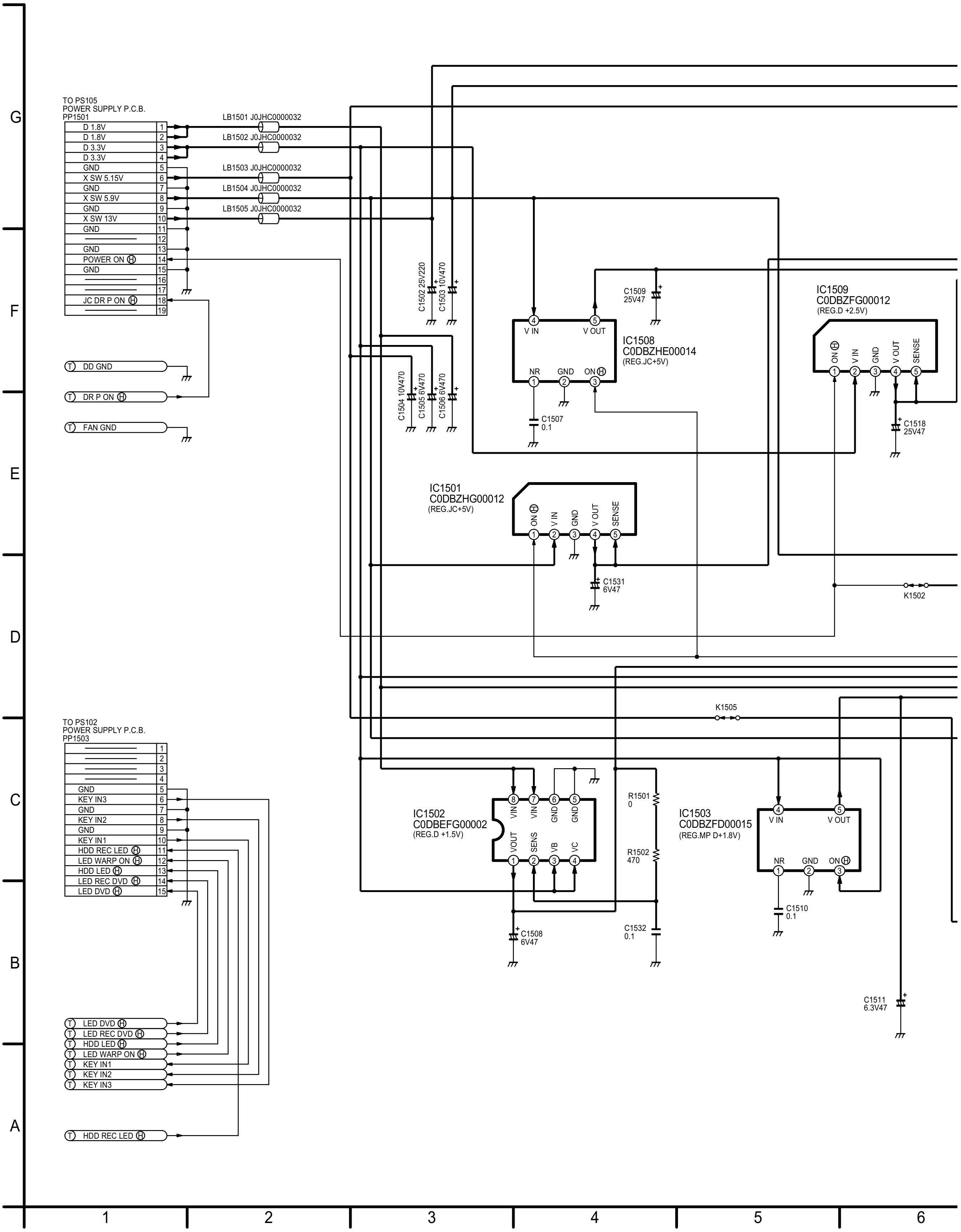
DMR-E100H GCS/GN/GH/GK
Main Power Supply
Schematic Diagram


TO PP1501
MAIN P.C.B.
PS105
1 D 1.8V
2 D 1.8V
3 D 3.3V
4 D 3.3V
5 GND
6 X SW 5.15V
7 GND
8 X SW 5.9V
9 GND
10 X SW 13V
11 GND
12
13 GND
14 POWER ON Ⓗ
15 GND
16
17
18 JC DR P ON Ⓗ
19
F101
125V 2.5A
178
.7K
TO PP1503
MAIN P.C.B.
PS102
1
2
3
4
5 GND
6 KEY IN3
7 GND
8 KEY IN2
9 GND
10 KEY IN1
11 HDD REC LED Ⓗ
12 LED WARP ON Ⓗ
13 HDD LED Ⓗ
14 LED REC DVD Ⓗ
15 LED DVD Ⓗ
D125
MA165
IC105
KA378R12C
(REG.+12V)
1
2
4
3
L141
EXCELSA35
C142
25V330
R179
8.2K
Q115
2SB709A
(POWER CTL.)
C127
25V47
R180
8.2K
R181
2.2K
R182
2.2K
TO P7801
FRONT(R) P.C.B.
PS103
1 LED DVD Ⓗ
2 LED REC DVD Ⓗ
3 HDD LED Ⓗ
4 LED WARP ON Ⓗ
5 HDD REC LED Ⓗ
6 KEY IN1
7 KEY IN2
8 KEY IN3
9 GND
10 X SW 5.15V
L115
EXCELSA35
Q105
UN221L
(POWER CTL.)
R138
8.2K
TO DVD RAM
PS104
1 12V
2 GND
3 GND
4 5V
L143
EXCELSA35
D114
MA111
L140
10u
TO HDD
PS101
1 12V
2 GND
3 GND
4 5V
Q104
2SD601A
(SWITCH Ⓗ :ON)
R139
10K
R136
8.2K
C140
16V470

DMR-E100H GCS/GN/GH/GK
Main Power Supply
Schematic Diagram

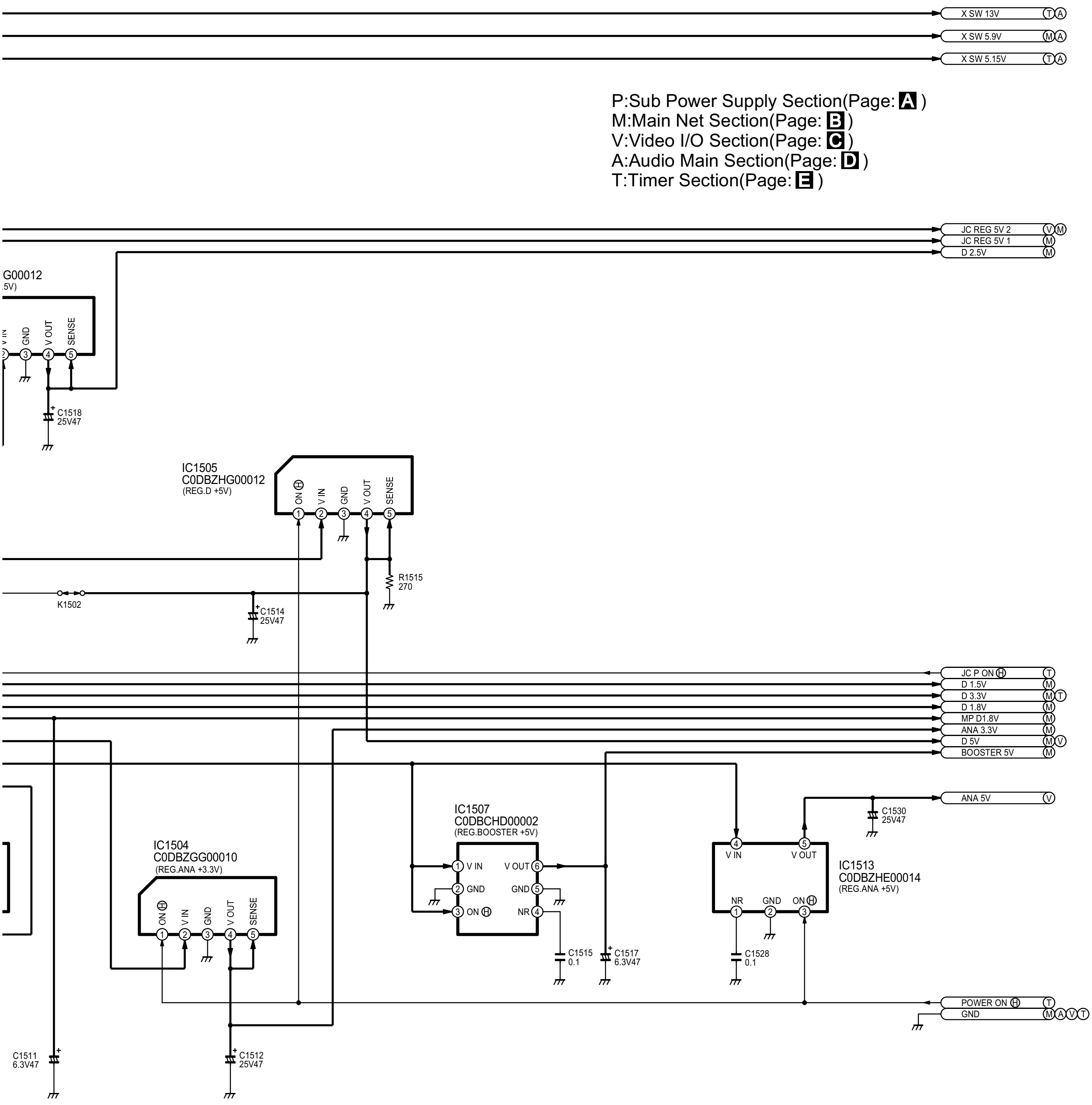
19 | 20 | 21 | 22 | 23

14.3. Sub Power Supply Schematic Diagram (P) (Main P.C.B. 1/5)



TO PS105
POWER SUPPLY P.C.B.
PP1501
D 1.8V
D 1.8V
D 3.3V
D 3.3V
GND
X SW 5.15V
GND
X SW 5.9V
GND
X SW 13V
GND
GND
POWER ON Ⓗ
GND
JC DR P ON Ⓗ
LB1501 J0JHC0000032
LB1502 J0JHC0000032
LB1503 J0JHC0000032
LB1504 J0JHC0000032
LB1505 J0JHC0000032
DD GND
DR P ON Ⓗ
FAN GND
C1502 25V220
C1503 10V470
C1504 10V470
C1505 6V470
C1506 6V470
C1509 25V47
IC1508
C0DBZHE00014
(REG.JC+5V)
V IN
V OUT
NR
GND
ON Ⓗ
C1507 0.1
IC1509
C0DBZFG00012
(REG.D +2.5V)
ON Ⓗ
V IN
GND
V OUT
SENSE
C1518 25V47
IC1501
C0DBZHG00012
(REG.JC+5V)
C1531 6V47
K1502
K1505
TO PS102
POWER SUPPLY P.C.B.
PP1503
GND
KEY IN3
GND
KEY IN2
GND
KEY IN1
HDD REC LED Ⓗ
LED WARP ON Ⓗ
HDD LED Ⓗ
LED REC DVD Ⓗ
LED DVD Ⓗ
IC1502
C0DBEFG00002
(REG.D +1.5V)
VIN
VIN
GND
GND
VOUT
SENS
VB
VC
C1508 6V47
R1501 0
R1502 470
C1532 0.1
IC1503
C0DBZFD00015
(REG.MP D+1.8V)
V IN
V OUT
NR
GND
ON Ⓗ
C1510 0.1
C1511 6.3V47
LED DVD Ⓗ
LED REC DVD Ⓗ
HDD LED Ⓗ
LED WARP ON Ⓗ
KEY IN1
KEY IN2
KEY IN3
HDD REC LED Ⓗ
G
F
E
D
C
B
A
1
2
3
4
5
6

A


X SW 13V
T A
X SW 5.9V
M A
X SW 5.15V
T A
JC REG 5V 2
V M
JC REG 5V 1
M
D 2.5V
M
G00012
.5V)
V IN
GND
V OUT
SENSE
C1518
25V47
IC1505
C0DBZHG00012
(REG.D +5V)
ON H
V IN
GND
V OUT
SENSE
R1515
270
K1502
C1514
25V47
JC P ON H
T
D 1.5V
M
D 3.3V
M T
D 1.8V
M
MP D1.8V
M
ANA 3.3V
M
D 5V
M V
BOOSTER 5V
M
ANA 5V
V
C1530
25V47
IC1507
C0DBCHD00002
(REG.BOOSTER +5V)
V IN
V OUT
GND
GND
ON H
NR
IC1504
C0DBZGG00010
(REG.ANA +3.3V)
ON H
V IN
GND
V OUT
SENSE
IC1513
C0DBZHE00014
(REG.ANA +5V)
V IN
V OUT
NR
GND
ON H
C1515
0.1
C1517
6.3V47
C1528
0.1
POWER ON H
T
GND
M A V T
C1511
6.3V47
C1512
25V47

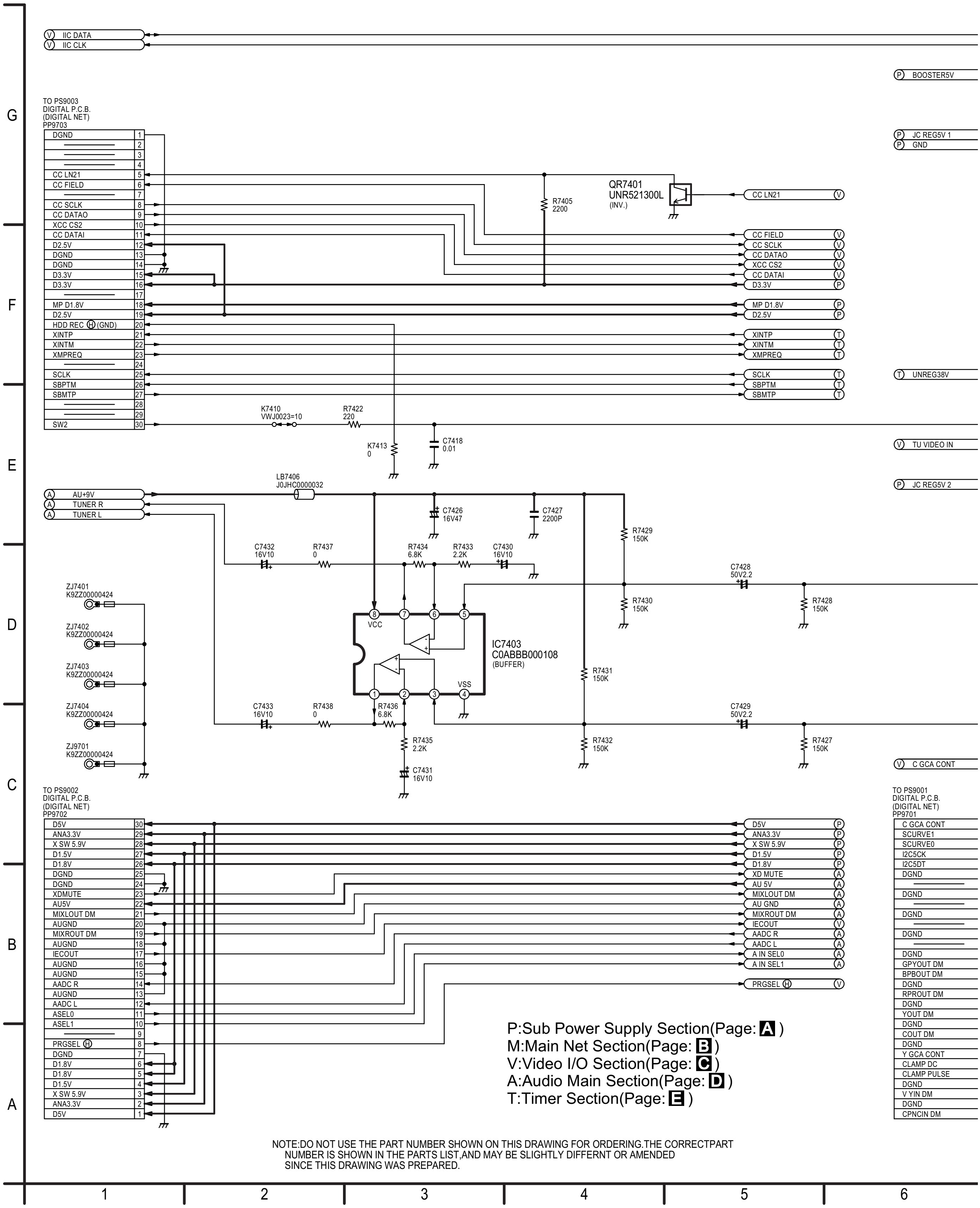
P:Sub Power Supply Section(Page: A)
M:Main Net Section(Page: B)
V:Video I/O Section(Page: C)
A:Audio Main Section(Page: D)
T:Timer Section(Page: E)

NOTE:DO NOT USE THE PART NUMBER SHOWN ON
THIS DRAWING FOR ORDERING. THE CORRECT
PART NUMBER IS SHOWN IN THE PARTS LIST,
AND MAY BE SLIGHTLY DIFFERNT OR AMENDED
SINCE THIS DRAWING WAS PREPARED.

DMR-E100H GCS/GN/GH/GK
Sub Power Supply Section(Main P.C.B.(1/5))
Schematic Diagram(P)

6 7 8 9 10 11

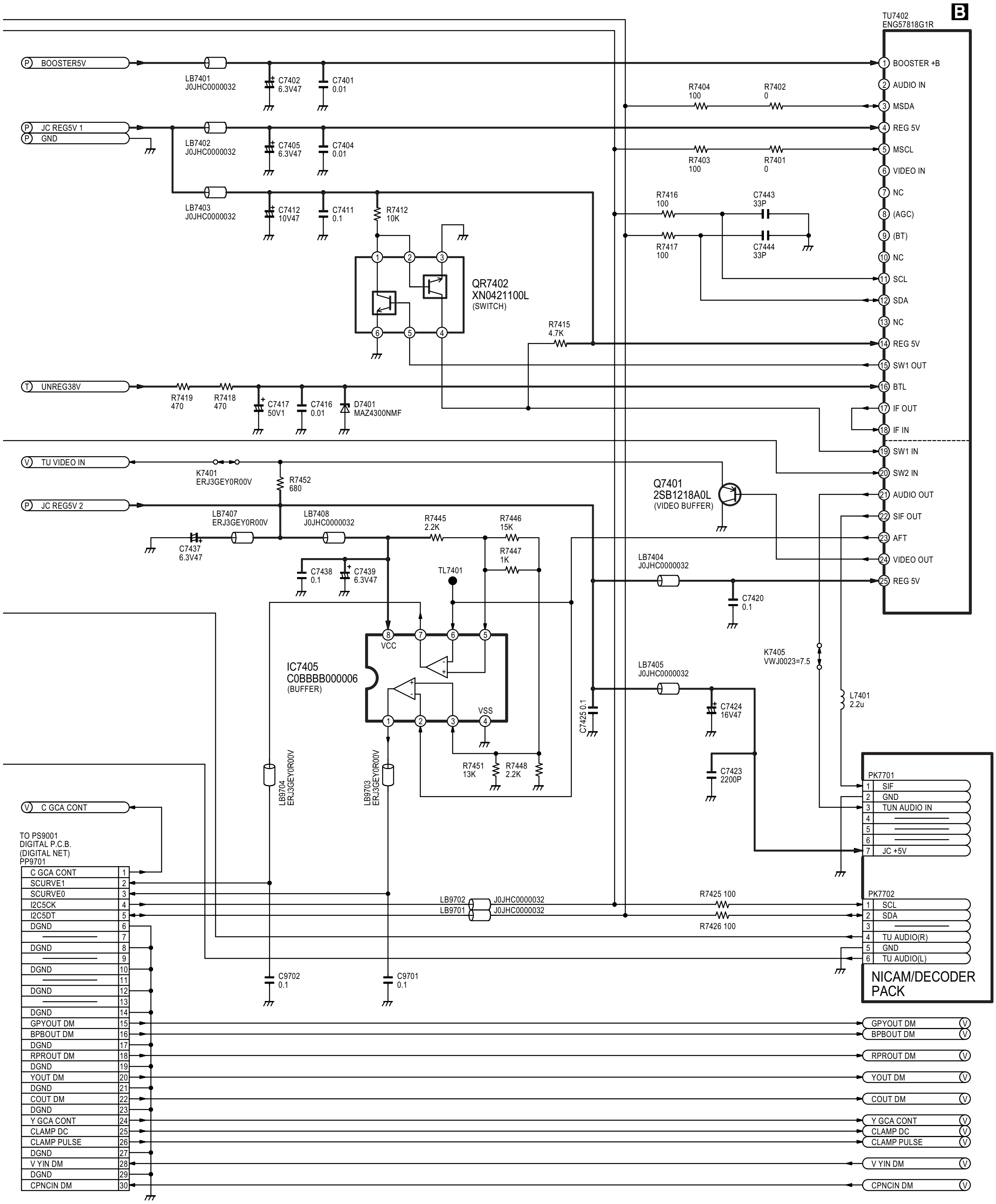
14.4. Main Net Schematic Diagram (M) (Main P.C.B. 2/5)



IIC DATA
IIC CLK
BOOSTER5V
TO PS9003
DIGITAL P.C.B.
(DIGITAL NET)
PP9703
DGND
CC LN21
CC FIELD
CC SCLK
CC DATAO
XCC CS2
CC DATAI
D2.5V
DGND
DGND
D3.3V
D3.3V
MP D1.8V
D2.5V
HDD REC Ⓗ (GND)
XINTP
XINTM
XMPREQ
SCLK
SBPTM
SBMTP
SW2
JC REGV5V 1
GND
QR7401
UNR521300L
(INV.)
R7405
2200
CC LN21
CC FIELD
CC SCLK
CC DATAO
XCC CS2
CC DATAI
D3.3V
MP D1.8V
D2.5V
XINTP
XINTM
XMPREQ
SCLK
SBPTM
SBMTP
UNREG38V
K7410
VWJ0023=10
R7422
220
K7413
0
C7418
0.01
TU VIDEO IN
LB7406
J0JHC0000032
AU+9V
TUNER R
TUNER L
JC REG5V 2
C7426
16V47
C7427
2200P
R7429
150K
C7432
16V10
R7437
0
R7434
6.8K
R7433
2.2K
C7430
16V10
C7428
50V2.2
R7430
150K
R7428
150K
ZJ7401
K9ZZ00000424
ZJ7402
K9ZZ00000424
ZJ7403
K9ZZ00000424
ZJ7404
K9ZZ00000424
ZJ9701
K9ZZ00000424
VCC
VSS
IC7403
C0ABBB000108
(BUFFER)
R7431
150K
C7433
16V10
R7438
0
R7436
6.8K
C7429
50V2.2
R7435
2.2K
R7432
150K
R7427
150K
C7431
16V10
C GCA CONT
TO PS9002
DIGITAL P.C.B.
(DIGITAL NET)
PP9702
D5V
ANA3.3V
X SW 5.9V
D1.5V
D1.8V
DGND
DGND
XDMUTE
AU5V
MIXLOUT DM
AUGND
MIXROUT DM
AUGND
IECOUT
AUGND
AUGND
AADC R
AUGND
AADC L
ASEL0
ASEL1
PRGSEL Ⓗ
DGND
D1.8V
D1.8V
D1.5V
X SW 5.9V
ANA3.3V
D5V
D5V
ANA3.3V
X SW 5.9V
D1.5V
D1.8V
XD MUTE
AU 5V
MIXLOUT DM
AU GND
MIXROUT DM
IECOUT
AADC R
AADC L
A IN SEL0
A IN SEL1
PRGSEL Ⓗ
TO PS9001
DIGITAL P.C.B.
(DIGITAL NET)
PP9701
C GCA CONT
SCURVE1
SCURVE0
I2C5CK
I2C5DT
DGND
DGND
DGND
DGND
DGND
GPYOUT DM
BPBOUT DM
DGND
RPROUT DM
DGND
YOUT DM
DGND
COUT DM
DGND
Y GCA CONT
CLAMP DC
CLAMP PULSE
DGND
V YIN DM
DGND
CPNCIN DM
G
F
E
D
C
B
A
1
2
3
4
5
6

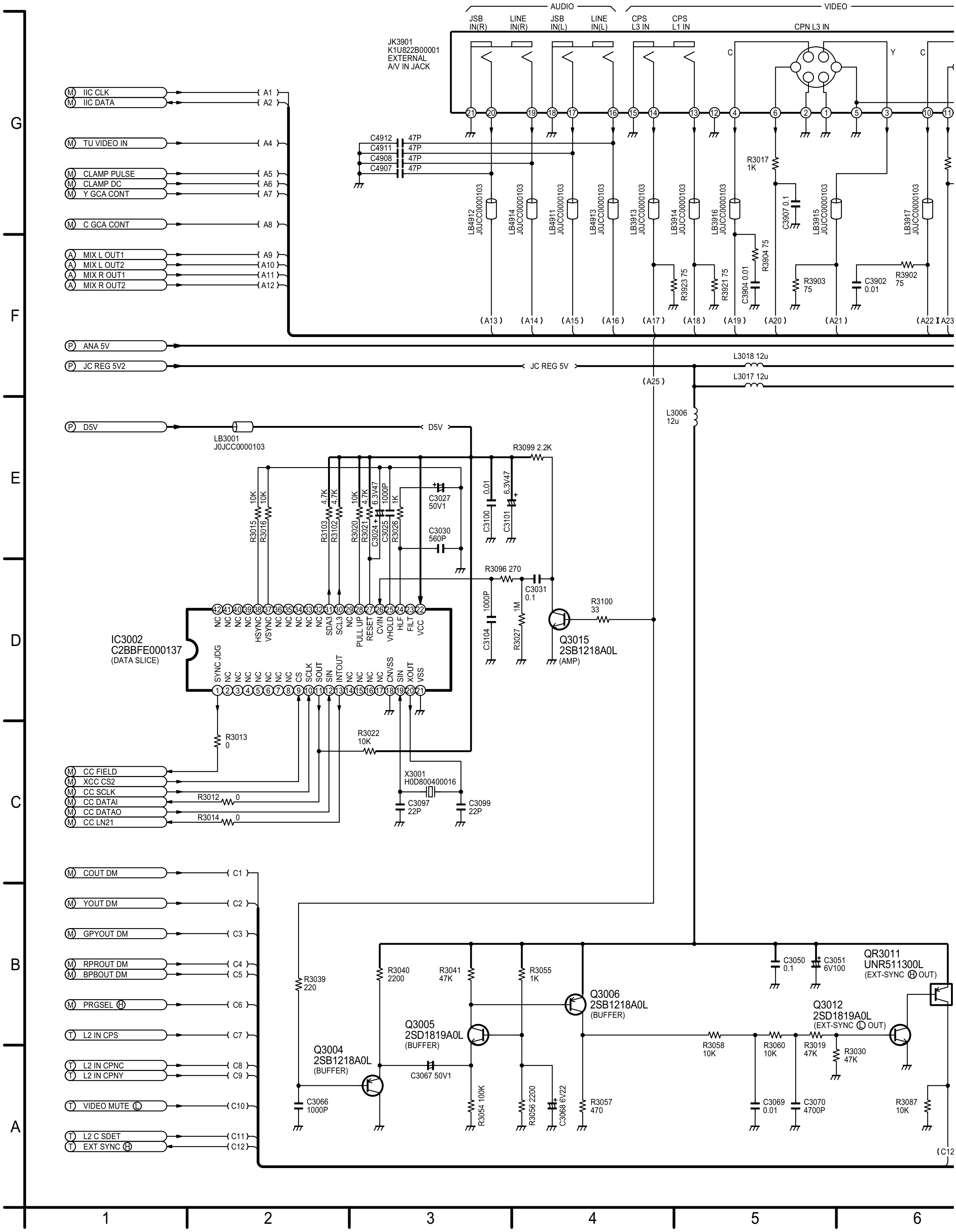
P:Sub Power Supply Section(Page: **A**)
M:Main Net Section(Page: **B**)
V:Video I/O Section(Page: **C**)
A:Audio Main Section(Page: **D**)
T:Timer Section(Page: **E**)

NOTE:DO NOT USE THE PART NUMBER SHOWN ON THIS DRAWING FOR ORDERING.THE CORRECTPART NUMBER IS SHOWN IN THE PARTS LIST,AND MAY BE SLIGHTLY DIFFERNT OR AMENDED SINCE THIS DRAWING WAS PREPARED.

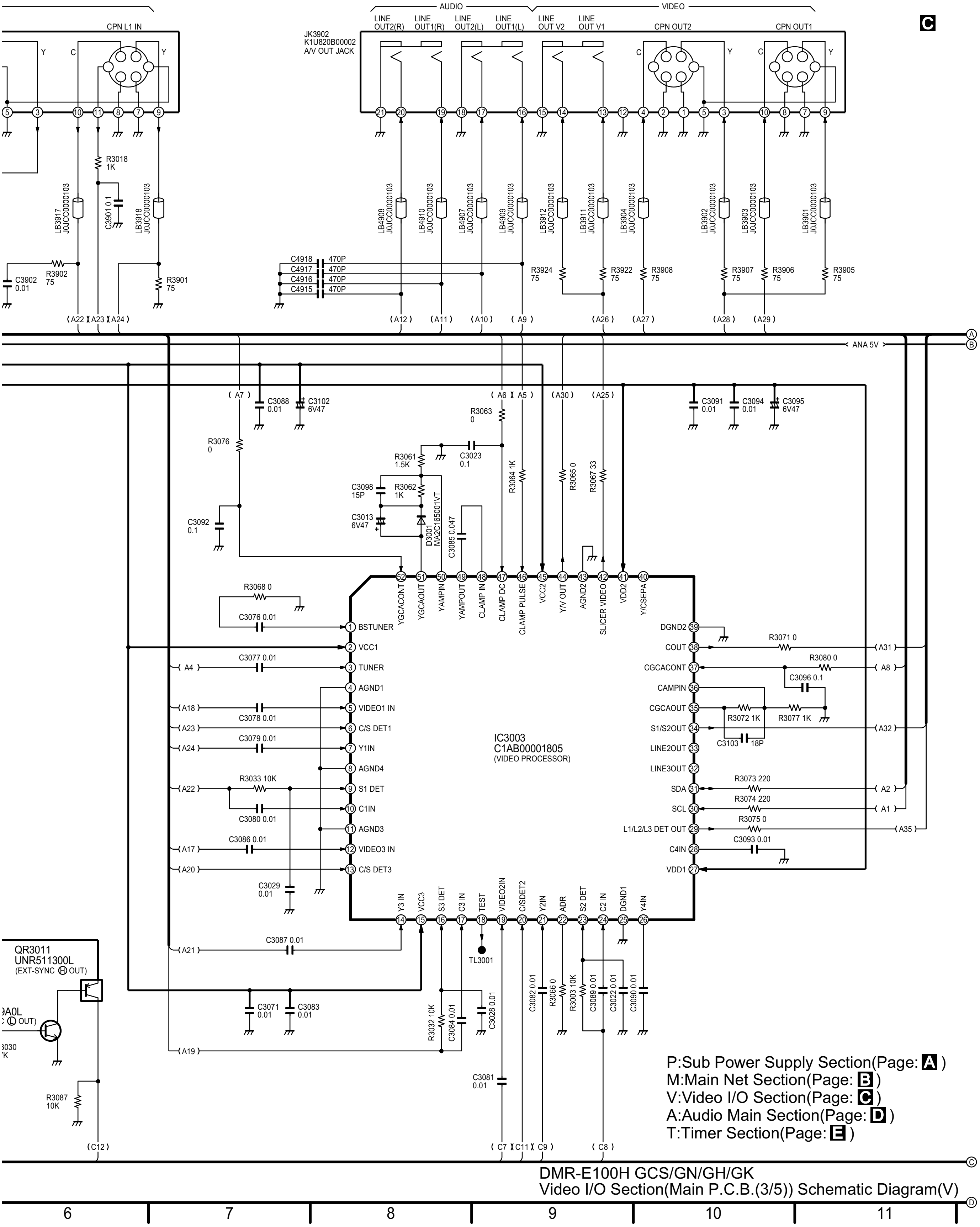

B
TU7402
ENG57818G1R
BOOSTER5V
LB7401
J0JHC0000032
C7402
6.3V47
C7401
0.01
JC REG5V 1
GND
LB7402
J0JHC0000032
C7405
6.3V47
C7404
0.01
LB7403
J0JHC0000032
C7412
10V47
C7411
0.1
R7412
10K
QR7402
XN0421100L
(SWITCH)
R7404
100
R7402
0
R7403
100
R7401
0
R7416
100
C7443
33P
R7417
100
C7444
33P
R7415
4.7K
UNREG38V
R7419
470
R7418
470
C7417
50V1
C7416
0.01
D7401
MAZ4300NMF
1 BOOSTER +B
2 AUDIO IN
3 MSDA
4 REG 5V
5 MSCL
6 VIDEO IN
7 NC
8 (AGC)
9 (BT)
10 NC
11 SCL
12 SDA
13 NC
14 REG 5V
15 SW1 OUT
16 BTL
17 IF OUT
18 IF IN
19 SW1 IN
20 SW2 IN
21 AUDIO OUT
22 SIF OUT
23 AFT
24 VIDEO OUT
25 REG 5V
TU VIDEO IN
K7401
ERJ3GEY0R00V
R7452
680
JC REG5V 2
Q7401
2SB1218A0L
(VIDEO BUFFER)
LB7407
ERJ3GEY0R00V
LB7408
J0JHC0000032
C7437
6.3V47
R7445
2.2K
R7446
15K
R7447
1K
C7438
0.1
C7439
6.3V47
TL7401
LB7404
J0JHC0000032
C7420
0.1
IC7405
C0BBBB000006
(BUFFER)
VCC
VSS
R7451
13K
R7448
2.2K
C7425 0.1
LB7405
J0JHC0000032
C7424
16V47
C7423
2200P
K7405
VWJ0023=7.5
L7401
2.2u
LB9704
ERJ3GEY0R00V
LB9703
ERJ3GEY0R00V
C GCA CONT
TO PS9001
DIGITAL P.C.B.
(DIGITAL NET)
PP9701
1 C GCA CONT
2 SCURVE1
3 SCURVE0
4 I2C5CK
5 I2C5DT
6 DGND
7
8 DGND
9
10 DGND
11
12 DGND
13
14 DGND
15 GPYOUT DM
16 BPBOUT DM
17 DGND
18 RPROUT DM
19 DGND
20 YOUT DM
21 DGND
22 COUT DM
23 DGND
24 Y GCA CONT
25 CLAMP DC
26 CLAMP PULSE
27 DGND
28 V YIN DM
29 DGND
30 CPNCIN DM
LB9702
LB9701
J0JHC0000032
J0JHC0000032
R7425 100
R7426 100
C9702
0.1
C9701
0.1
PK7701
1 SIF
2 GND
3 TUN AUDIO IN
4
5
6
7 JC +5V
PK7702
1 SCL
2 SDA
3
4 TU AUDIO(R)
5 GND
6 TU AUDIO(L)
NICAM/DECODER
PACK
GPYOUT DM
BPBOUT DM
RPROUT DM
YOUT DM
COUT DM
Y GCA CONT
CLAMP DC
CLAMP PULSE
V YIN DM
CPNCIN DM
P
T
V
6
7
8
9
10
11

DMR-E100H GCS/GN/GH/GK
Main Net Section(Main P.C.B.(2/5))
Schematic Diagram(M)

14.5. Video I/O Schematic Diagram (V) (Main P.C.B. 3/5)

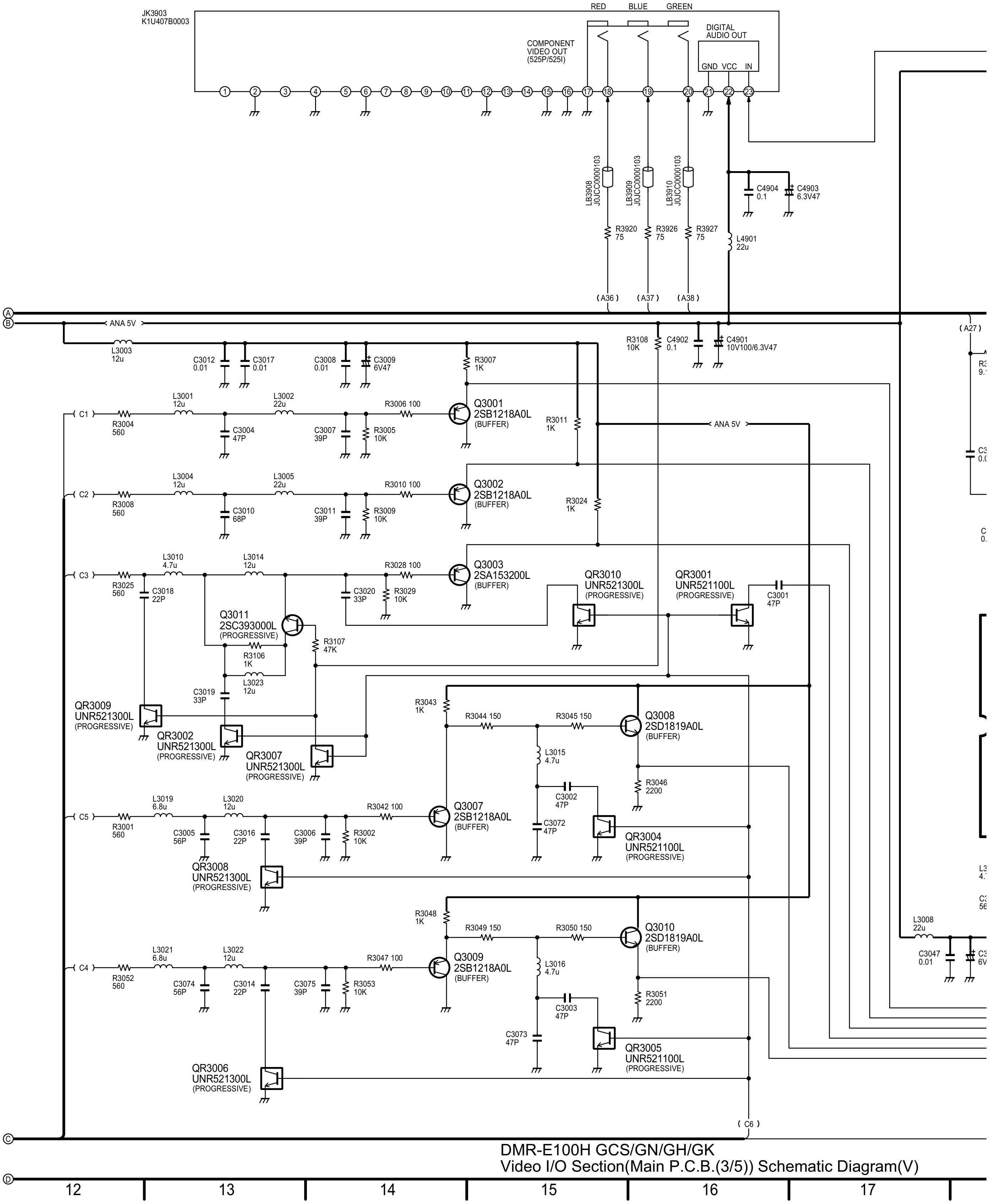


AUDIO
VIDEO
JSB IN(R)
LINE IN(R)
JSB IN(L)
LINE IN(L)
CPS L3 IN
CPS L1 IN
CPN L3 IN
JK3901
K1U822B00001
EXTERNAL
A/V IN JACK
IIC CLK
IIC DATA
TU VIDEO IN
CLAMP PULSE
CLAMP DC
Y GCA CONT
C GCA CONT
MIX L OUT1
MIX L OUT2
MIX R OUT1
MIX R OUT2
ANA 5V
JC REG 5V2
JC REG 5V
D5V
LB3001
J0JCC0000103
C4912 47P
C4911 47P
C4908 47P
C4907 47P
LB4912 J0JCC0000103
LB4914 J0JCC0000103
LB4911 J0JCC0000103
LB4913 J0JCC0000103
LB3913 J0JCC0000103
LB3914 J0JCC0000103
LB3916 J0JCC0000103
LB3915 J0JCC0000103
LB3917 J0JCC0000103
R3017 1K
C3907 0.1
R3904 75
R3923 75
R3921 75
C3904 0.01
R3903 75
C3902 0.01
R3902 75
L3018 12u
L3017 12u
L3006 12u
R3099 2.2K
C3027 50V1
C3030 560P
C3100 0.01
C3101 6.3V47
R3015 10K
R3016 10K
R3103 4.7K
R3102 4.7K
R3020 10K
R3021 4.7K
C3024 6.3V47
C3025 1000P
R3026 1K
R3096 270
C3031 0.1
R3100 33
C3104 1000P
R3027 1M
Q3015
2SB1218A0L
(AMP)
IC3002
C2BBFE000137
(DATA SLICE)
NC NC NC NC HSYNC VSYNC NC NC NC NC SDA3 SCL3 NC PULL UP RESET CVIN VHOLD HLF FILT VCC
SYNC JDG NC NC NC NC NC NC NC CS SCLK SOUT SIN INTOUT NC NC NC NC CNVSS SIN XOUT VSS
R3013 0
R3022 10K
X3001
H0D800400016
C3097 22P
C3099 22P
CC FIELD
XCC CS2
CC SCLK
CC DATAI
CC DATAO
CC LN21
R3012 0
R3014 0
COUT DM
YOUT DM
GPYOUT DM
RPROUT DM
BPBOUT DM
PRGSEL Ⓗ
L2 IN CPS
L2 IN CPNC
L2 IN CPNY
VIDEO MUTE Ⓛ
L2 C SDET
EXT SYNC Ⓗ
R3039 220
R3040 2200
R3041 47K
R3055 1K
Q3006
2SB1218A0L
(BUFFER)
Q3005
2SD1819A0L
(BUFFER)
Q3004
2SB1218A0L
(BUFFER)
C3067 50V1
C3066 1000P
R3054 100K
R3056 2200
C3068 6V22
R3057 470
C3050 0.1
C3051 6V100
QR3011
UNR511300L
(EXT-SYNC Ⓗ OUT)
Q3012
2SD1819A0L
(EXT-SYNC Ⓛ OUT)
R3058 10K
R3060 10K
R3019 47K
R3030 47K
C3069 0.01
C3070 4700P
R3087 10K
G
F
E
D
C
B
A
1
2
3
4
5
6


C
AUDIO
VIDEO
CPN L1 IN
JK3902
K1U820B00002
A/V OUT JACK
LINE OUT2(R)
LINE OUT1(R)
LINE OUT2(L)
LINE OUT1(L)
LINE OUT V2
LINE OUT V1
CPN OUT2
CPN OUT1
Y
C
R3018 1K
C3901 0.1
LB3917 J0JCC0000103
LB3918 J0JCC0000103
LB4908 J0JCC0000103
LB4910 J0JCC0000103
LB4907 J0JCC0000103
LB4909 J0JCC0000103
LB3912 J0JCC0000103
LB3911 J0JCC0000103
LB3904 J0JCC0000103
LB3902 J0JCC0000103
LB3903 J0JCC0000103
LB3901 J0JCC0000103
C3902 0.01
R3902 75
R3901 75
C4918 470P
C4917 470P
C4916 470P
C4915 470P
R3924 75
R3922 75
R3908 75
R3907 75
R3906 75
R3905 75
A22
A23
A24
A12
A11
A10
A9
A26
A27
A28
A29
ANA 5V
A7
C3088 0.01
C3102 6V47
A6
A5
A30
A25
C3091 0.01
C3094 0.01
C3095 6V47
R3063 0
R3076 0
R3061 1.5K
C3023 0.1
C3098 15P
R3062 1K
C3013 6V47
D3001 MA2C165001VT
C3085 0.047
R3064 1K
R3065 0
R3067 33
C3092 0.1
R3068 0
C3076 0.01
YGCACONT
YGCAOUT
YAMPIN
YAMPOUT
CLAMP IN
CLAMP DC
CLAMP PULSE
VCC2
Y/V OUT
AGND2
SLICER VIDEO
VDD2
Y/CSEPA
BSTUNER
VCC1
TUNER
AGND1
VIDEO1 IN
C/S DET1
Y1IN
AGND4
S1 DET
C1IN
AGND3
VIDEO3 IN
C/S DET3
A4
C3077 0.01
A18
C3078 0.01
C3079 0.01
R3033 10K
C3080 0.01
C3086 0.01
A17
A20
C3029 0.01
IC3003
C1AB00001805
(VIDEO PROCESSOR)
DGND2
COUT
CGCACONT
CAMPIN
CGCAOUT
S1/S2OUT
LINE2OUT
LINE3OUT
SDA
SCL
L1/L2/L3 DET OUT
C4IN
VDD1
R3071 0
A31
R3080 0
A8
C3096 0.1
R3072 1K
R3077 1K
A32
C3103 18P
R3073 220
A2
R3074 220
A1
R3075 0
A35
C3093 0.01
Y3 IN
VCC3
S3 DET
C3 IN
TEST
VIDEO2IN
C/SDET2
Y2IN
ADR
S2 DET
C2 IN
DGND1
Y4IN
QR3011
UNR511300L
(EXT-SYNC Ⓗ OUT)
A21
C3087 0.01
TL3001
9A0L
Ⓛ OUT)
3030
C3071 0.01
C3083 0.01
R3032 10K
C3084 0.01
C3028 0.01
C3082 0.01
R3066 0
R3003 10K
C3089 0.01
C3022 0.01
C3090 0.01
A19
C3081 0.01
R3087 10K
C12
C7
C11
C9
C8
Ⓐ
Ⓑ
Ⓒ
Ⓓ
6
7
8
9
10
11

P:Sub Power Supply Section(Page: **A**)
M:Main Net Section(Page: **B**)
V:Video I/O Section(Page: **C**)
A:Audio Main Section(Page: **D**)
T:Timer Section(Page: **E**)

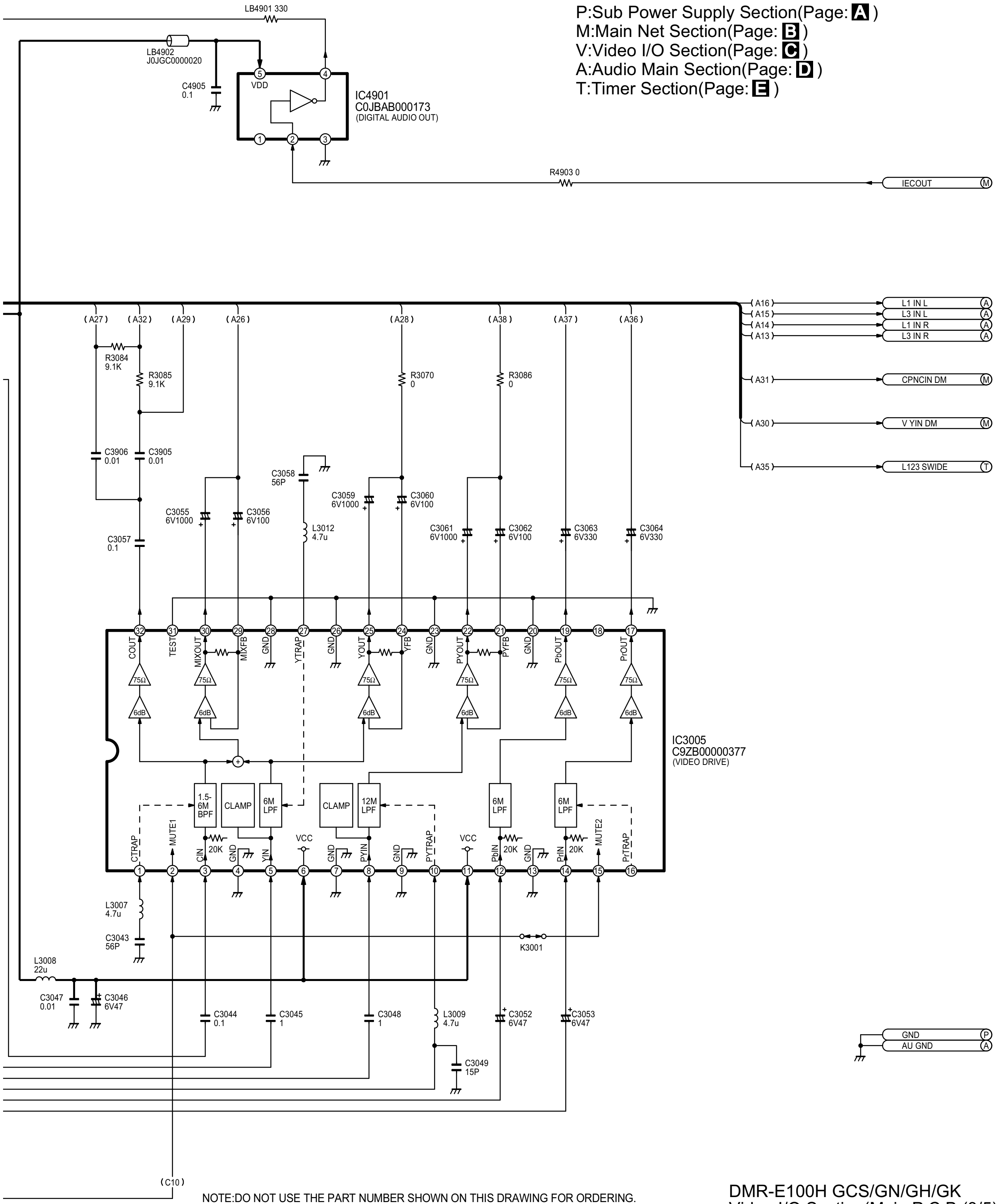
DMR-E100H GCS/GN/GH/GK
Video I/O Section(Main P.C.B.(3/5)) Schematic Diagram(V)


JK3903
K1U407B0003
RED
BLUE
GREEN
COMPONENT
VIDEO OUT
(525P/525I)
DIGITAL
AUDIO OUT
GND VCC IN
LB3908
J0JCC0000103
LB3909
J0JCC0000103
LB3910
J0JCC0000103
R3920
75
R3926
75
R3927
75
C4904
0.1
C4903
6.3V47
L4901
22u
A36
A37
A38
A
B
ANA 5V
A27
L3003
12u
R3108
10K
C4902
0.1
C4901
10V100/6.3V47
C3012
0.01
C3017
0.01
C3008
0.01
C3009
6V47
R3007
1K
C1
R3004
560
L3001
12u
C3004
47P
L3002
22u
C3007
39P
R3005
10K
R3006 100
Q3001
2SB1218A0L
(BUFFER)
R3011
1K
ANA 5V
C2
R3008
560
L3004
12u
C3010
68P
L3005
22u
C3011
39P
R3009
10K
R3010 100
Q3002
2SB1218A0L
(BUFFER)
R3024
1K
C3
R3025
560
L3010
4.7u
C3018
22P
L3014
12u
C3020
33P
R3029
10K
R3028 100
Q3003
2SA153200L
(BUFFER)
QR3010
UNR521300L
(PROGRESSIVE)
QR3001
UNR521100L
(PROGRESSIVE)
C3001
47P
Q3011
2SC393000L
(PROGRESSIVE)
R3107
47K
R3106
1K
L3023
12u
C3019
33P
QR3009
UNR521300L
(PROGRESSIVE)
QR3002
UNR521300L
(PROGRESSIVE)
QR3007
UNR521300L
(PROGRESSIVE)
R3043
1K
R3044 150
R3045 150
Q3008
2SD1819A0L
(BUFFER)
L3015
4.7u
R3046
2200
C3002
47P
C3072
47P
QR3004
UNR521100L
(PROGRESSIVE)
C5
R3001
560
L3019
6.8u
C3005
56P
L3020
12u
C3016
22P
C3006
39P
R3002
10K
R3042 100
Q3007
2SB1218A0L
(BUFFER)
QR3008
UNR521300L
(PROGRESSIVE)
R3048
1K
R3049 150
R3050 150
Q3010
2SD1819A0L
(BUFFER)
L3016
4.7u
R3051
2200
C3003
47P
C3073
47P
QR3005
UNR521100L
(PROGRESSIVE)
C4
R3052
560
L3021
6.8u
C3074
56P
L3022
12u
C3014
22P
C3075
39P
R3053
10K
R3047 100
Q3009
2SB1218A0L
(BUFFER)
QR3006
UNR521300L
(PROGRESSIVE)
L3008
22u
C3047
0.01
C6
C
D
12
13
14
15
16
17

DMR-E100H GCS/GN/GH/GK
Video I/O Section(Main P.C.B.(3/5)) Schematic Diagram(V)

C

P:Sub Power Supply Section(Page: **A**)
M:Main Net Section(Page: **B**)
V:Video I/O Section(Page: **C**)
A:Audio Main Section(Page: **D**)
T:Timer Section(Page: **E**)



LB4901 330
LB4902
J0JGC0000020
C4905
0.1
VDD
IC4901
C0JBAB000173
(DIGITAL AUDIO OUT)
R4903 0
IECOUT
M
A27
A32
A29
A26
A28
A38
A37
A36
R3084
9.1K
R3085
9.1K
R3070
0
R3086
0
C3906
0.01
C3905
0.01
C3058
56P
C3057
0.1
C3055
6V1000
C3056
6V100
L3012
4.7u
C3059
6V1000
C3060
6V100
C3061
6V1000
C3062
6V100
C3063
6V330
C3064
6V330
A16
A15
A14
A13
L1 IN L
L3 IN L
L1 IN R
L3 IN R
A31
CPNCIN DM
A30
V YIN DM
A35
L123 SWIDE
COUT
TEST
MIXOUT
MIXFB
GND
YTRAP
YOUT
YFB
PYOUT
PYFB
PbOUT
PrOUT
75Ω
6dB
IC3005
C9ZB00000377
(VIDEO DRIVE)
1.5-6M BPF
CLAMP
6M LPF
12M LPF
CTRAP
MUTE1
CIN
20K
YIN
VCC
PYIN
PYTRAP
PbIN
PrIN
MUTE2
PrTRAP
L3007
4.7u
C3043
56P
K3001
L3008
22u
C3047
0.01
C3046
6V47
C3044
0.1
C3045
1
C3048
1
L3009
4.7u
C3052
6V47
C3053
6V47
C3049
15P
GND
AU GND
P
A
T
C10

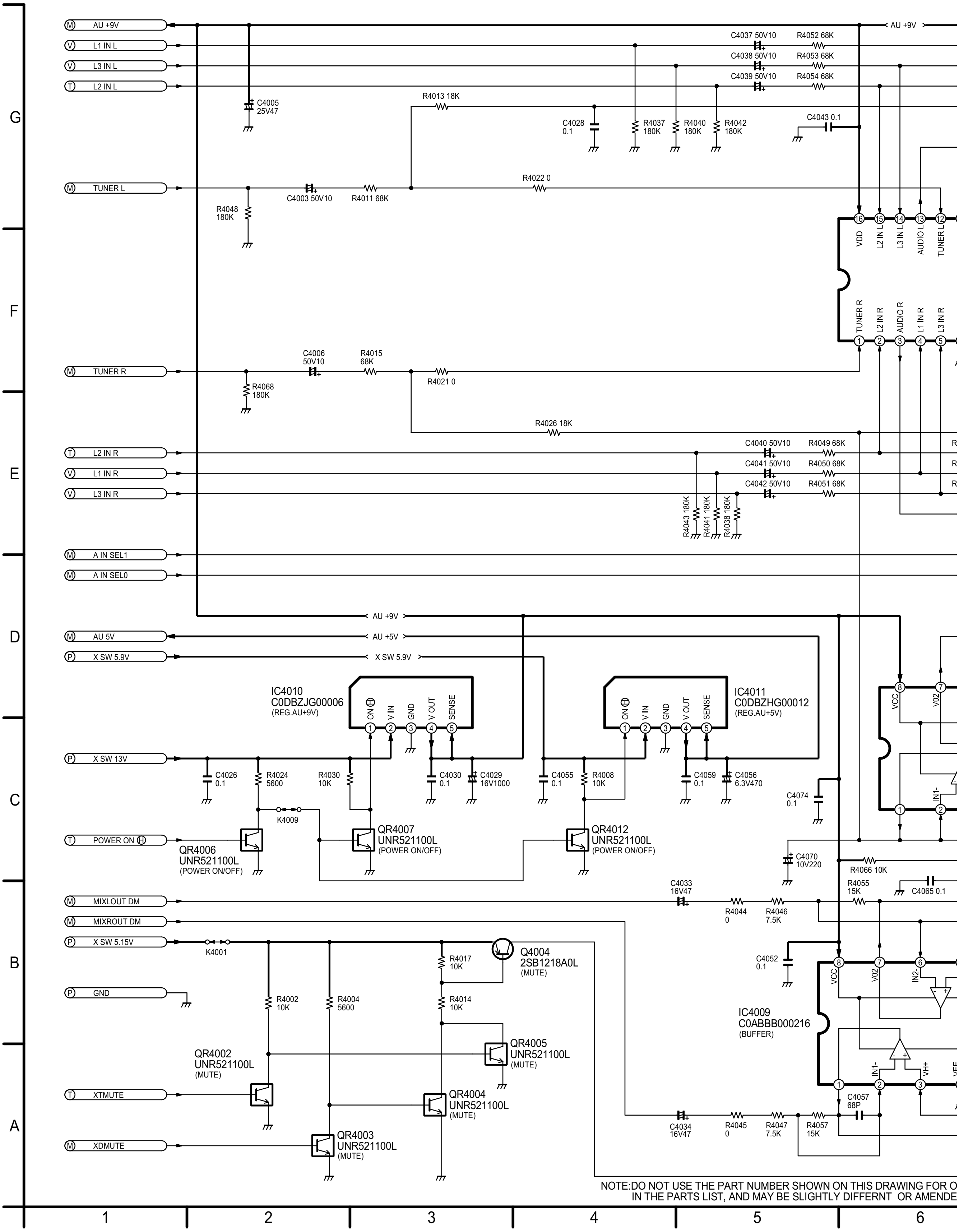
NOTE:DO NOT USE THE PART NUMBER SHOWN ON THIS DRAWING FOR ORDERING.
THE CORRECT PART NUMBER IS SHOWN IN THE PARTS LIST, AND MAY BE
SLIGHTLY DIFFERNT OR AMENDED SINCE THIS DRAWING WAS PREPARED.

m(V)

DMR-E100H GCS/GN/GH/GK
Video I/O Section(Main P.C.B.(3/5))
Schematic Diagram(V)

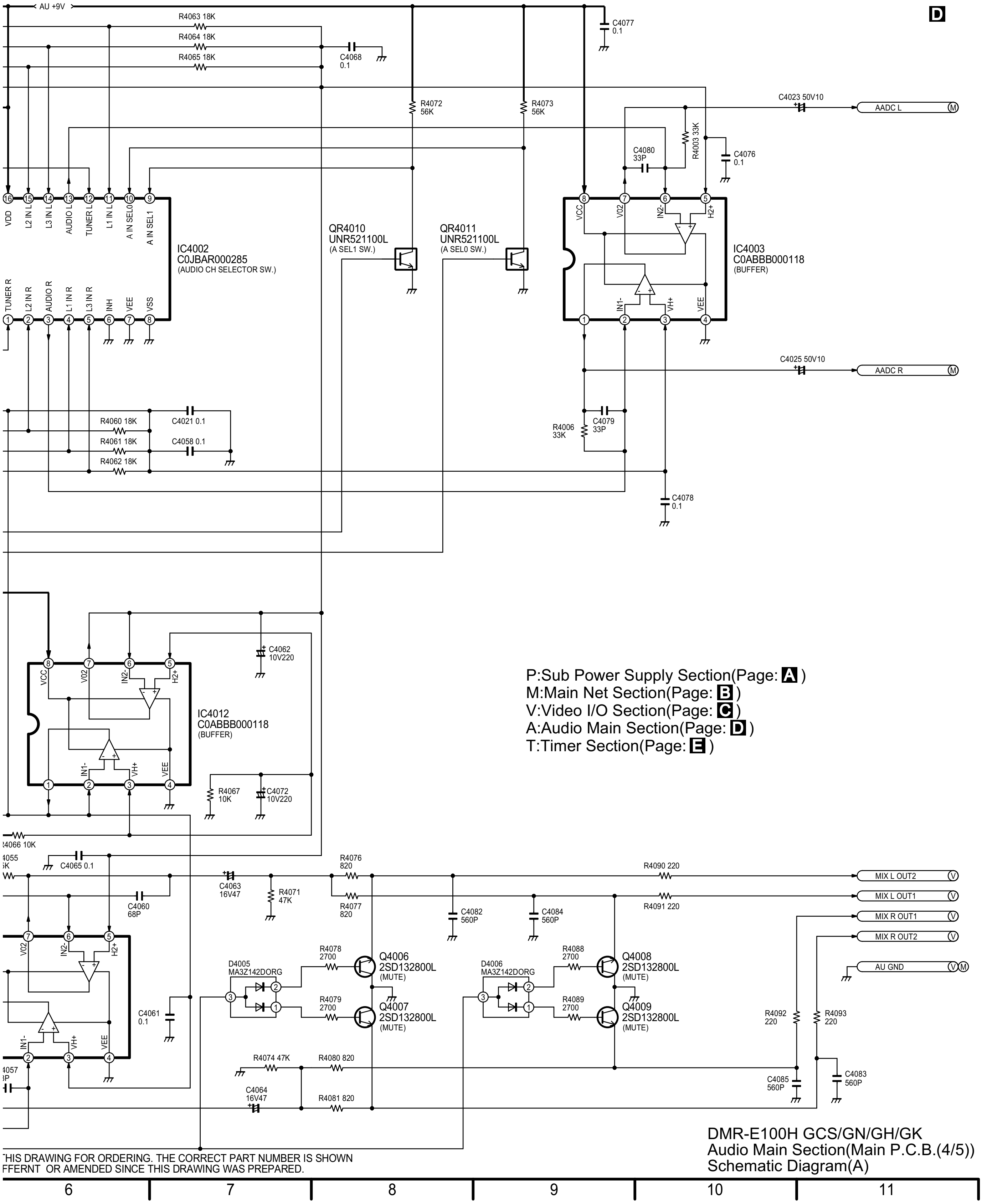
18	19	20	21	22

14.6. Audio Schematic Diagram (A) (Main P.C.B. 4/5)



AU +9V
L1 IN L
L3 IN L
L2 IN L
TUNER L
TUNER R
L2 IN R
L1 IN R
L3 IN R
A IN SEL1
A IN SEL0
AU 5V
X SW 5.9V
X SW 13V
POWER ON H
MIXLOUT DM
MIXROUT DM
X SW 5.15V
GND
XTMUTE
XDMUTE
C4005 25V47
R4013 18K
C4028 0.1
R4037 180K
R4040 180K
R4042 180K
C4037 50V10
C4038 50V10
C4039 50V10
R4052 68K
R4053 68K
R4054 68K
C4043 0.1
R4022 0
R4048 180K
C4003 50V10
R4011 68K
VDD
L2 IN L
L3 IN L
AUDIO L
TUNER L
TUNER R
L2 IN R
AUDIO R
L1 IN R
L3 IN R
C4006 50V10
R4015 68K
R4068 180K
R4021 0
R4026 18K
C4040 50V10
C4041 50V10
C4042 50V10
R4049 68K
R4050 68K
R4051 68K
R4043 180K
R4041 180K
R4038 180K
AU +9V
AU +5V
X SW 5.9V
IC4010
C0DBZJG00006
(REG.AU+9V)
ON H
V IN
GND
V OUT
SENSE
IC4011
C0DBZHG00012
(REG.AU+5V)
C4026 0.1
R4024 5600
R4030 10K
C4030 0.1
C4029 16V1000
C4055 0.1
R4008 10K
C4059 0.1
C4056 6.3V470
C4074 0.1
K4009
QR4006
UNR521100L
(POWER ON/OFF)
QR4007
UNR521100L
(POWER ON/OFF)
QR4012
UNR521100L
(POWER ON/OFF)
C4070 10V220
R4066 10K
C4033 16V47
R4044 0
R4046 7.5K
R4055 15K
C4065 0.1
VCC
V02
IN1-
K4001
Q4004
2SB1218A0L
(MUTE)
R4017 10K
R4014 10K
R4002 10K
R4004 5600
C4052 0.1
IC4009
C0ABBB000216
(BUFFER)
IN2-
VH+
QR4002
UNR521100L
(MUTE)
QR4005
UNR521100L
(MUTE)
QR4004
UNR521100L
(MUTE)
QR4003
UNR521100L
(MUTE)
C4057 68P
C4034 16V47
R4045 0
R4047 7.5K
R4057 15K
G
F
E
D
C
B
A
1
2
3
4
5
6

NOTE:DO NOT USE THE PART NUMBER SHOWN ON THIS DRAWING FOR O
IN THE PARTS LIST, AND MAY BE SLIGHTLY DIFFERNT OR AMENDE

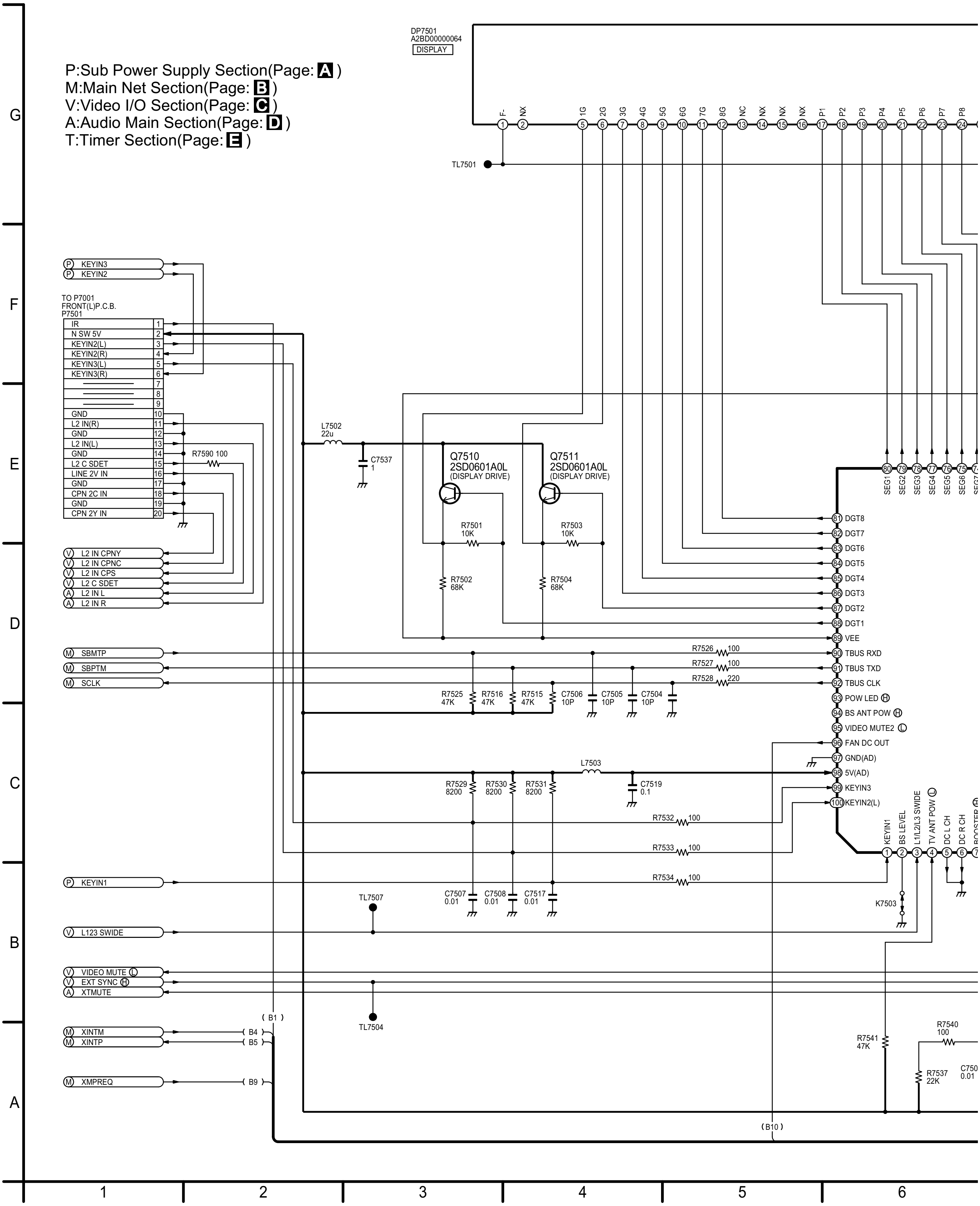

D
AU +9V
R4063 18K
R4064 18K
R4065 18K
C4068 0.1
C4077 0.1
R4072 56K
R4073 56K
C4023 50V10
AADC L
M
C4080 33P
R4003 33K
C4076 0.1
VDD
L2 IN L
L3 IN L
AUDIO L
TUNER L
L1 IN L
A IN SEL0
A IN SEL1
IC4002
C0JBAR000285
(AUDIO CH SELECTOR SW.)
TUNER R
L2 IN R
AUDIO R
L1 IN R
L3 IN R
INH
VEE
VSS
QR4010
UNR521100L
(A SEL1 SW.)
QR4011
UNR521100L
(A SEL0 SW.)
VCC
V02
IN2-
H2+
IN1-
VH+
VEE
IC4003
C0ABBB000118
(BUFFER)
C4025 50V10
AADC R
M
R4006 33K
C4079 33P
R4060 18K
R4061 18K
R4062 18K
C4021 0.1
C4058 0.1
C4078 0.1
C4062 10V220
IC4012
C0ABBB000118
(BUFFER)
R4067 10K
C4072 10V220
R4066 10K
4055
5K
C4065 0.1
C4060 68P
C4063 16V47
R4071 47K
R4076 820
R4077 820
C4082 560P
C4084 560P
R4090 220
R4091 220
MIX L OUT2
MIX L OUT1
MIX R OUT1
MIX R OUT2
AU GND
V
M
C4061 0.1
4057
P
D4005
MA3Z142DORG
R4078 2700
R4079 2700
Q4006
2SD132800L
(MUTE)
Q4007
2SD132800L
(MUTE)
D4006
MA3Z142DORG
R4088 2700
R4089 2700
Q4008
2SD132800L
(MUTE)
Q4009
2SD132800L
(MUTE)
R4074 47K
R4080 820
R4081 820
C4064 16V47
R4092 220
R4093 220
C4085 560P
C4083 560P
6
7
8
9
10
11

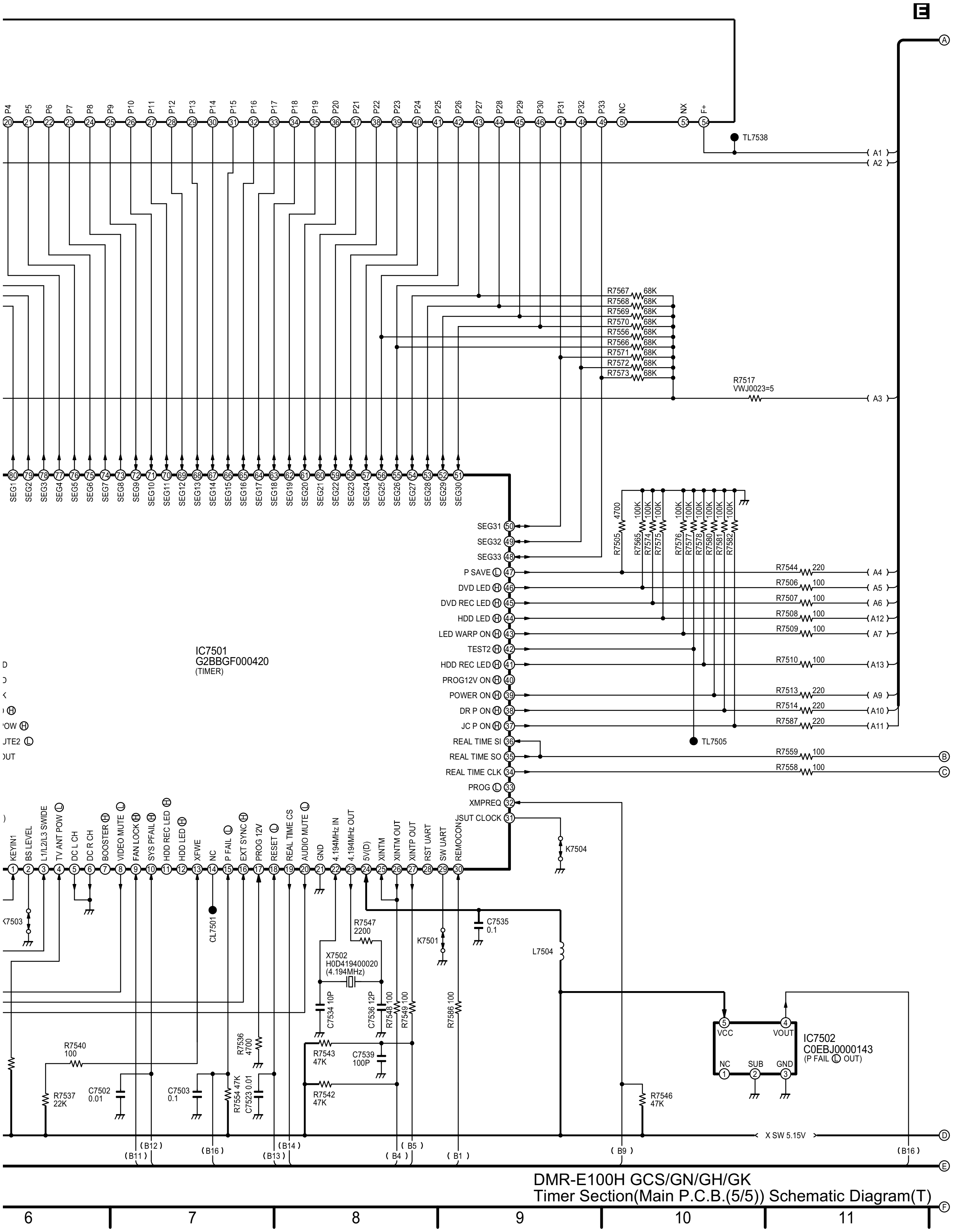
P:Sub Power Supply Section(Page: **A**)
M:Main Net Section(Page: **B**)
V:Video I/O Section(Page: **C**)
A:Audio Main Section(Page: **D**)
T:Timer Section(Page: **E**)

HIS DRAWING FOR ORDERING. THE CORRECT PART NUMBER IS SHOWN
FFERNT OR AMENDED SINCE THIS DRAWING WAS PREPARED.

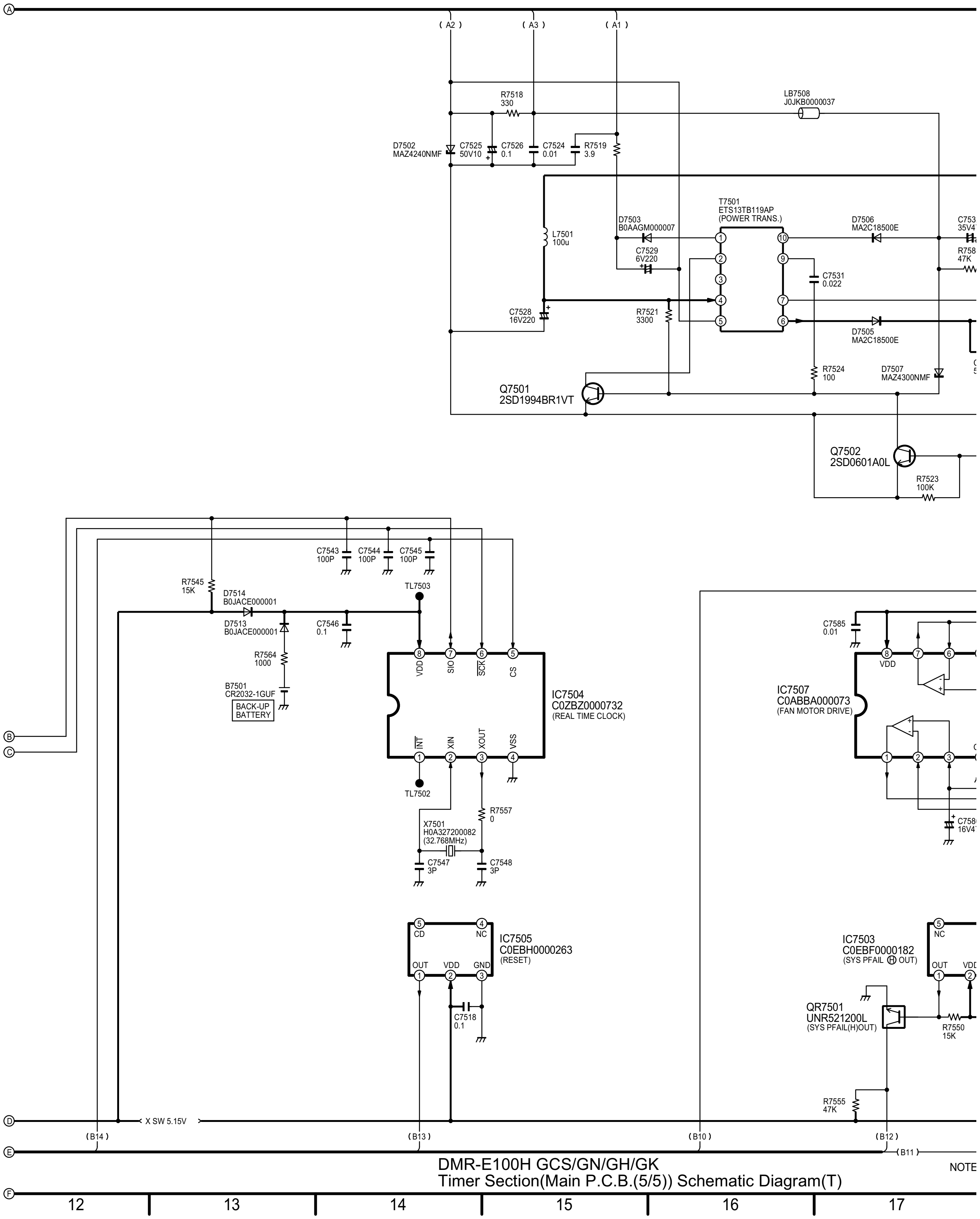
DMR-E100H GCS/GN/GH/GK
Audio Main Section(Main P.C.B.(4/5))
Schematic Diagram(A)

14.7. Timer Schematic Diagram (T) (Main P.C.B. 5/5)


P:Sub Power Supply Section(Page: A)
M:Main Net Section(Page: B)
V:Video I/O Section(Page: C)
A:Audio Main Section(Page: D)
T:Timer Section(Page: E)
DP7501
A2BD00000064
DISPLAY
F-
NX
1G
2G
3G
4G
5G
6G
7G
8G
NC
NX
NX
NX
P1
P2
P3
P4
P5
P6
P7
P8
TL7501
P KEYIN3
P KEYIN2
TO P7001
FRONT(L)P.C.B.
P7501
IR
N SW 5V
KEYIN2(L)
KEYIN2(R)
KEYIN3(L)
KEYIN3(R)
GND
L2 IN(R)
GND
L2 IN(L)
GND
L2 C SDET
LINE 2V IN
GND
CPN 2C IN
GND
CPN 2Y IN
R7590 100
L7502
22u
C7537
1
Q7510
2SD0601A0L
(DISPLAY DRIVE)
Q7511
2SD0601A0L
(DISPLAY DRIVE)
R7501
10K
R7503
10K
R7502
68K
R7504
68K
V L2 IN CPNY
V L2 IN CPNC
V L2 IN CPS
V L2 C SDET
A L2 IN L
A L2 IN R
M SBMTP
M SBPTM
M SCLK
R7526 100
R7527 100
R7528 220
R7525
47K
R7516
47K
R7515
47K
C7506
10P
C7505
10P
C7504
10P
SEG1
SEG2
SEG3
SEG4
SEG5
SEG6
81 DGT8
82 DGT7
83 DGT6
84 DGT5
85 DGT4
86 DGT3
87 DGT2
88 DGT1
89 VEE
90 TBUS RXD
91 TBUS TXD
92 TBUS CLK
93 POW LED H
94 BS ANT POW H
95 VIDEO MUTE2 L
96 FAN DC OUT
97 GND(AD)
98 5V(AD)
99 KEYIN3
100 KEYIN2(L)
L7503
R7529
8200
R7530
8200
R7531
8200
C7519
0.1
R7532 100
R7533 100
R7534 100
KEYIN1
BS LEVEL
L1/L2/L3 SWIDE
TV ANT POW L
DC L CH
DC R CH
P KEYIN1
TL7507
C7507
0.01
C7508
0.01
C7517
0.01
K7503
V L123 SWIDE
V VIDEO MUTE L
V EXT SYNC H
A XTMUTE
TL7504
B1
M XINTM
M XINTP
B4
B5
M XMPREQ
B9
B10
R7541
47K
R7540
100
R7537
22K
C750
0.01
G
F
E
D
C
B
A
1
2
3
4
5
6

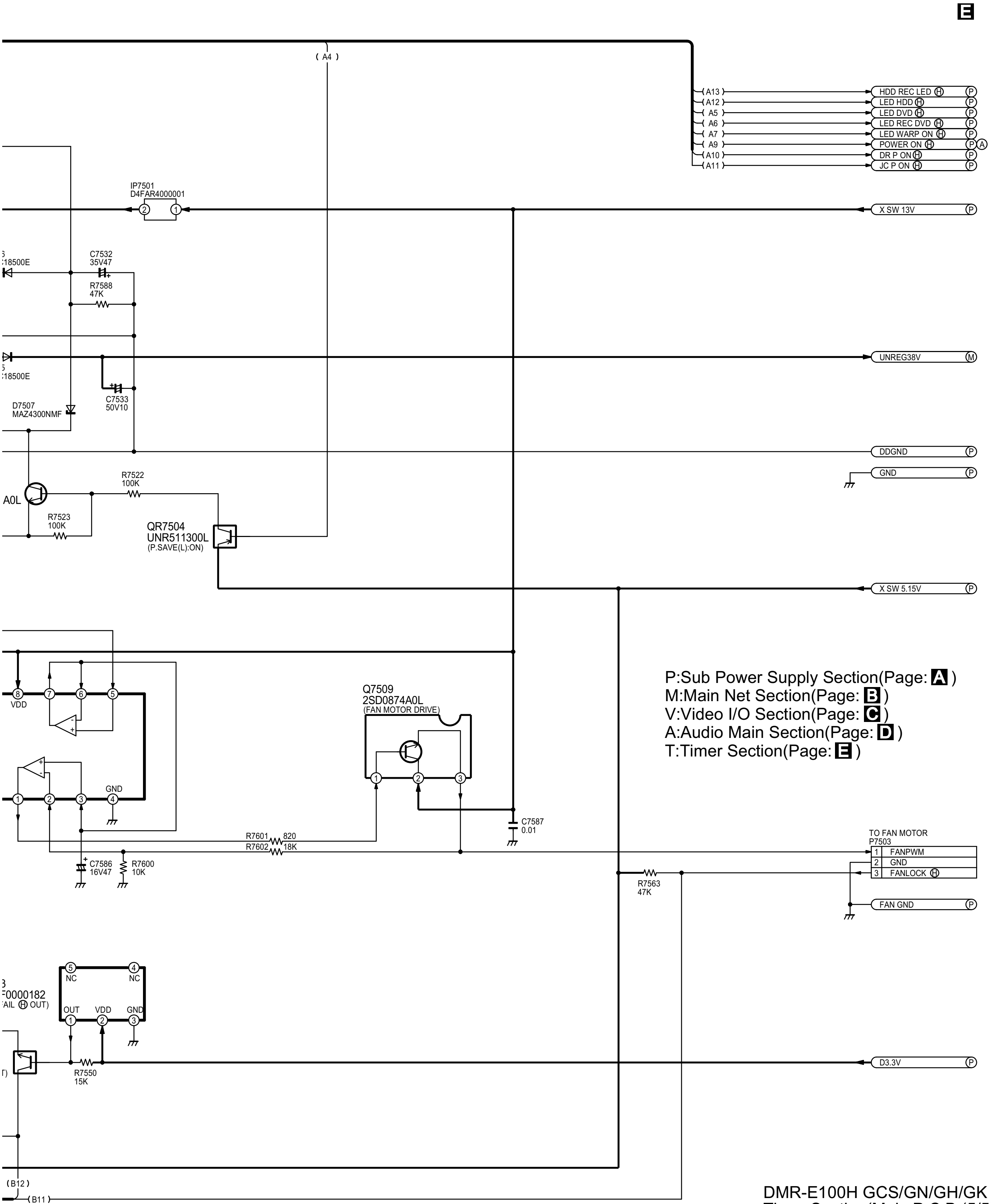

E
IC7501
G2BBGF000420
(TIMER)
IC7502
C0EBJ0000143
(P FAIL Ⓛ OUT)
VCC
VOUT
NC
SUB
GND
TL7538
TL7505
R7517
VWJ0023=5
R7567 68K
R7568 68K
R7569 68K
R7570 68K
R7556 68K
R7566 68K
R7571 68K
R7572 68K
R7573 68K
R7505 4700
R7565 100K
R7574 100K
R7575 100K
R7576 100K
R7577 100K
R7578 100K
R7580 100K
R7581 100K
R7582 100K
SEG31
SEG32
SEG33
P SAVE Ⓛ
DVD LED Ⓗ
DVD REC LED Ⓗ
HDD LED Ⓗ
LED WARP ON Ⓗ
TEST2 Ⓗ
HDD REC LED Ⓗ
PROG12V ON Ⓗ
POWER ON Ⓗ
DR P ON Ⓗ
JC P ON Ⓗ
REAL TIME SI
REAL TIME SO
REAL TIME CLK
PROG Ⓛ
XMPREQ
JSUT CLOCK
R7544 220
R7506 100
R7507 100
R7508 100
R7509 100
R7510 100
R7513 220
R7514 220
R7587 220
R7559 100
R7558 100
A1
A2
A3
A4
A5
A6
A12
A7
A13
A9
A10
A11
KEYIN1
BS LEVEL
L1/L2/L3 SWIDE
TV ANT POW Ⓛ
DC L CH
DC R CH
BOOSTER Ⓗ
VIDEO MUTE Ⓛ
FAN LOCK Ⓗ
SYS PFAIL Ⓗ
HDD REC LED Ⓗ
HDD LED Ⓗ
XFWE
NC
P FAIL Ⓛ
EXT SYNC Ⓗ
PROG 12V
RESET Ⓛ
REAL TIME CS
AUDIO MUTE Ⓛ
GND
4.194MHz IN
4.194MHz OUT
5V(D)
XINTM
XINTM OUT
XINTP OUT
RST UART
SW UART
REMOCON
K7503
K7504
K7501
CL7501
R7547 2200
X7502
H0D419400020
(4.194MHz)
C7534 10P
C7536 12P
R7548 100
R7549 100
R7586 100
C7535 0.1
L7504
R7540 100
R7537 22K
C7502 0.01
C7503 0.1
R7554 47K
C7523 0.01
R7536 4700
R7543 47K
C7539 100P
R7542 47K
R7546 47K
X SW 5.15V
B1
B4
B5
B9
B11
B12
B13
B14
B16
6
7
8
9
10
11
A
B
C
D
E
F

DMR-E100H GCS/GN/GH/GK
Timer Section(Main P.C.B.(5/5)) Schematic Diagram(T)


A
(A2)
(A3)
(A1)
R7518
330
LB7508
J0JKB0000037
D7502
MAZ4240NMF
C7525
50V10
C7526
0.1
C7524
0.01
R7519
3.9
T7501
ETS13TB119AP
(POWER TRANS.)
D7503
B0AAGM000007
D7506
MA2C18500E
C753
35V4
L7501
100u
C7529
6V220
R758
47K
C7531
0.022
C7528
16V220
R7521
3300
D7505
MA2C18500E
R7524
100
D7507
MAZ4300NMF
Q7501
2SD1994BR1VT
Q7502
2SD0601A0L
R7523
100K
C7543
100P
C7544
100P
C7545
100P
R7545
15K
D7514
B0JACE000001
TL7503
D7513
B0JACE000001
C7546
0.1
R7564
1000
B7501
CR2032-1GUF
BACK-UP
BATTERY
VDD
SIO
SCK
CS
IC7504
C0ZBZ0000732
(REAL TIME CLOCK)
INT
XIN
XOUT
VSS
TL7502
R7557
0
X7501
H0A327200082
(32.768MHz)
C7547
3P
C7548
3P
C7585
0.01
VDD
IC7507
C0ABBA000073
(FAN MOTOR DRIVE)
C758
16V4
IC7505
C0EBH0000263
(RESET)
CD
NC
OUT
VDD
GND
C7518
0.1
IC7503
C0EBF0000182
(SYS PFAIL Ⓗ OUT)
NC
OUT
VDD
QR7501
UNR521200L
(SYS PFAIL(H)OUT)
R7550
15K
R7555
47K
B
C
D
X SW 5.15V
(B14)
(B13)
(B10)
(B12)
(B11)
E
F
NOTE
12
13
14
15
16
17

DMR-E100H GCS/GN/GH/GK

Timer Section(Main P.C.B.(5/5)) Schematic Diagram(T)

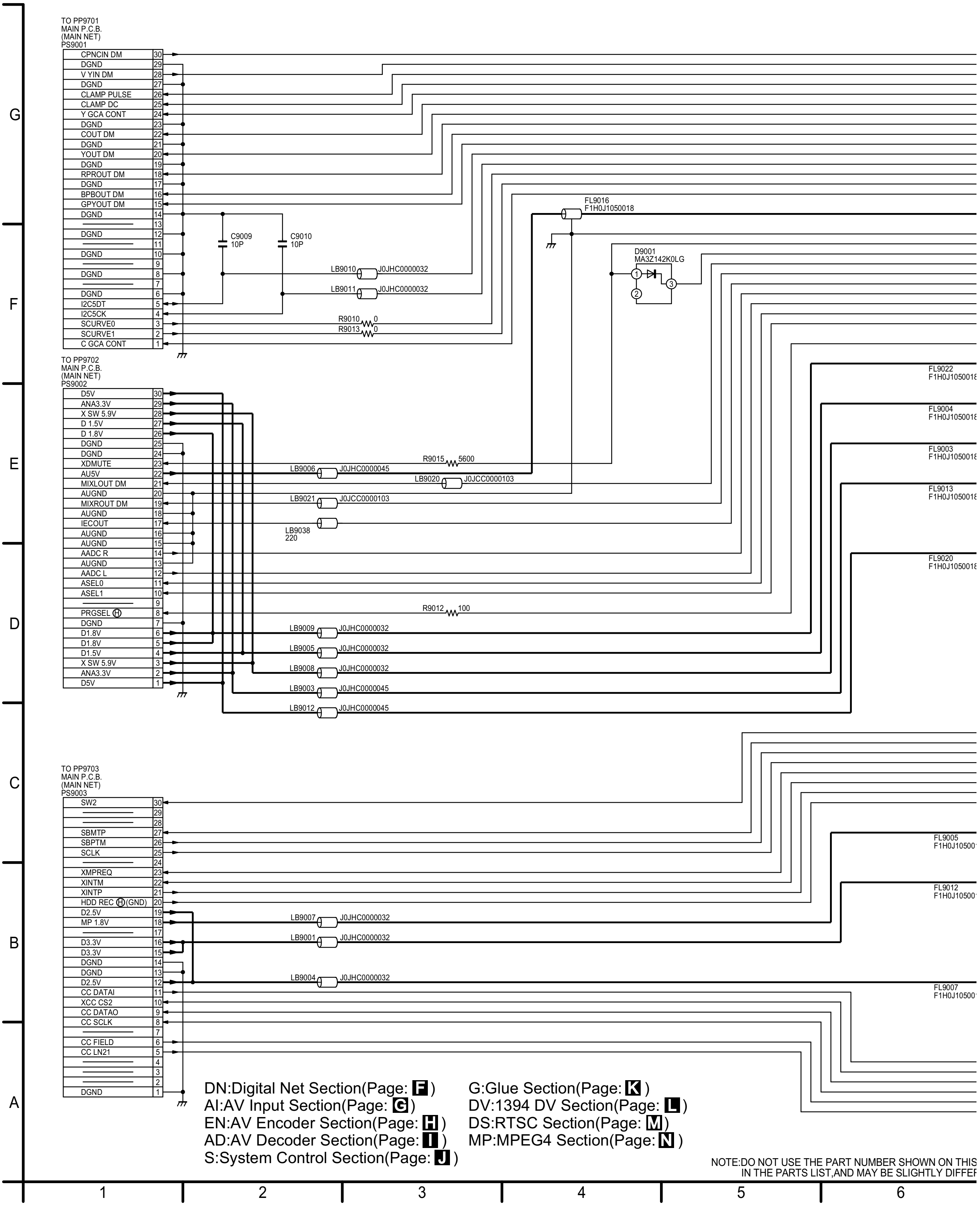

E
A4
A13
A12
A5
A6
A7
A9
A10
A11
HDD REC LED Ⓗ
LED HDD Ⓗ
LED DVD Ⓗ
LED REC DVD Ⓗ
LED WARP ON Ⓗ
POWER ON Ⓗ
DR P ON Ⓗ
JC P ON Ⓗ
Ⓟ
Ⓐ
IP7501
D4FAR4000001
X SW 13V
18500E
C7532
35V47
R7588
47K
UNREG38V
Ⓜ
18500E
D7507
MAZ4300NMF
C7533
50V10
DDGND
GND
A0L
R7522
100K
R7523
100K
QR7504
UNR511300L
(P.SAVE(L):ON)
X SW 5.15V
VDD
GND
Q7509
2SD0874A0L
(FAN MOTOR DRIVE)
R7601
820
R7602
18K
C7587
0.01
C7586
16V47
R7600
10K
TO FAN MOTOR
P7503
1 FANPWM
2 GND
3 FANLOCK Ⓗ
R7563
47K
FAN GND
NC
NC
OUT
VDD
GND
0000182
AIL Ⓗ OUT)
R7550
15K
D3.3V
B12
B11
17
18
19
20
21
22

P:Sub Power Supply Section(Page: **A**)
M:Main Net Section(Page: **B**)
V:Video I/O Section(Page: **C**)
A:Audio Main Section(Page: **D**)
T:Timer Section(Page: **E**)

NOTE:DO NOT USE THE PART NUMBER SHOWN ON THIS DRAWING FOR ORDERING. THE CORRECT PART NUMBER IS SHOWN IN THE PARTS LIST,AND MAY BE SLIGHTLY DIFFERNT OR AMENDED SINCE THIS DRAWING WAS PREPARED.

DMR-E100H GCS/GN/GH/GK
Timer Section(Main P.C.B.(5/5))
Schematic Diagram(T)

14.8. Digital Net Schematic Diagram (DN) (Digital P.C.B. 1/9)

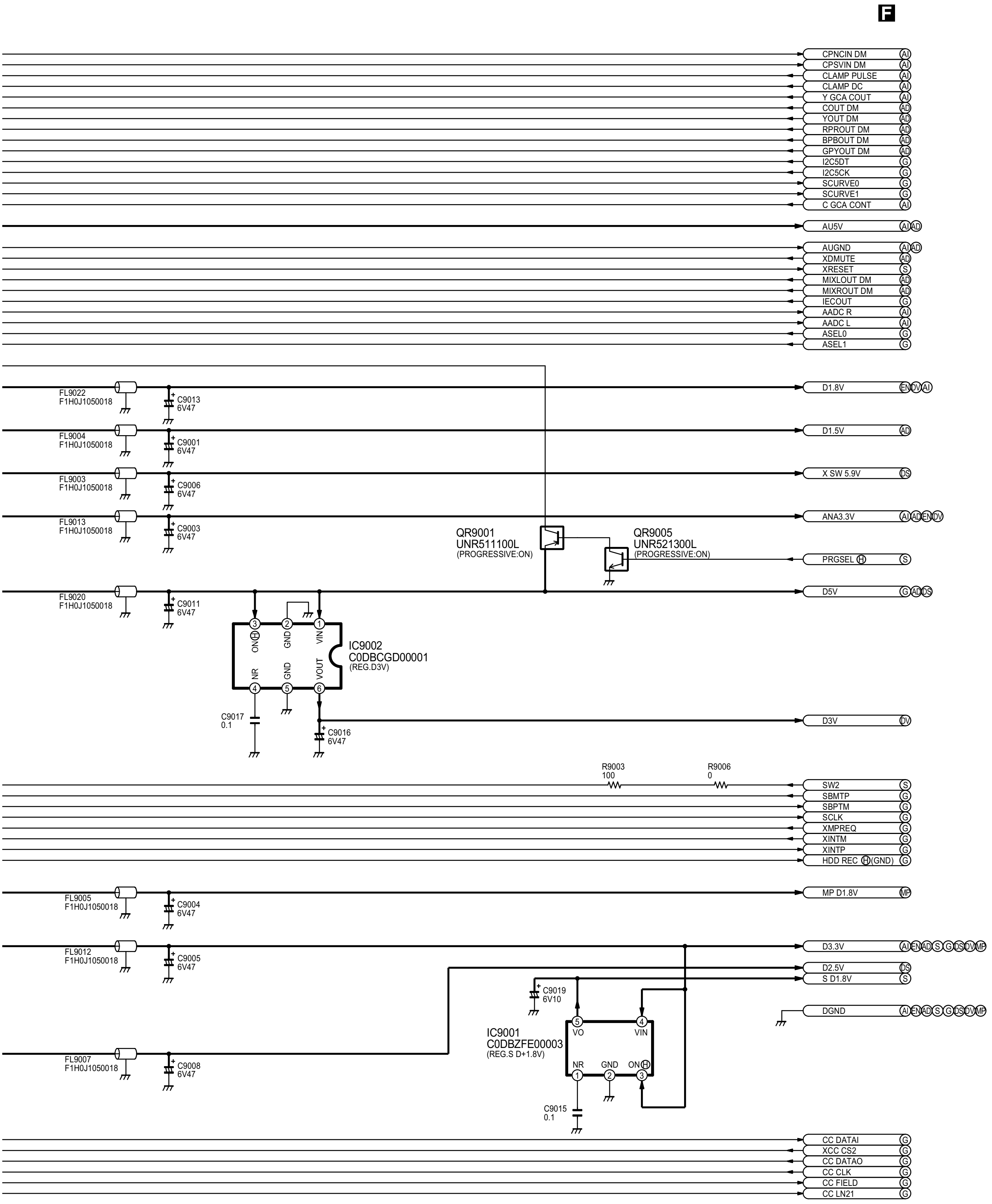


G
F
E
D
C
B
A
1
2
3
4
5
6
TO PP9701
MAIN P.C.B.
(MAIN NET)
PS9001
CPNCIN DM 30
DGND 29
V YIN DM 28
DGND 27
CLAMP PULSE 26
CLAMP DC 25
Y GCA CONT 24
DGND 23
COUT DM 22
DGND 21
YOUT DM 20
DGND 19
RPROUT DM 18
DGND 17
BPBOUT DM 16
GPYOUT DM 15
DGND 14
13
DGND 12
11
DGND 10
9
DGND 8
7
DGND 6
I2C5DT 5
I2C5CK 4
SCURVE0 3
SCURVE1 2
C GCA CONT 1
C9009
10P
C9010
10P
FL9016
F1H0J1050018
D9001
MA3Z142K0LG
①
②
③
LB9010 J0JHC0000032
LB9011 J0JHC0000032
R9010 0
R9013 0
TO PP9702
MAIN P.C.B.
(MAIN NET)
PS9002
D5V 30
ANA3.3V 29
X SW 5.9V 28
D 1.5V 27
D 1.8V 26
DGND 25
DGND 24
XDMUTE 23
AU5V 22
MIXLOUT DM 21
AUGND 20
MIXROUT DM 19
AUGND 18
IECOUT 17
AUGND 16
AUGND 15
AADC R 14
AUGND 13
AADC L 12
ASEL0 11
ASEL1 10
9
PRGSEL Ⓗ 8
DGND 7
D1.8V 6
D1.8V 5
D1.5V 4
X SW 5.9V 3
ANA3.3V 2
D5V 1
FL9022
F1H0J105001
FL9004
F1H0J105001
FL9003
F1H0J105001
FL9013
F1H0J105001
FL9020
F1H0J105001
R9015 5600
LB9006 J0JHC0000045
LB9020 J0JCC0000103
LB9021 J0JCC0000103
LB9038
220
R9012 100
LB9009 J0JHC0000032
LB9005 J0JHC0000032
LB9008 J0JHC0000032
LB9003 J0JHC0000045
LB9012 J0JHC0000045
TO PP9703
MAIN P.C.B.
(MAIN NET)
PS9003
SW2 30
29
28
SBMTP 27
SBPTM 26
SCLK 25
24
XMPREQ 23
XINTM 22
XINTP 21
HDD REC Ⓗ(GND) 20
D2.5V 19
MP 1.8V 18
17
D3.3V 16
D3.3V 15
DGND 14
DGND 13
D2.5V 12
CC DATAI 11
XCC CS2 10
CC DATAO 9
CC SCLK 8
7
CC FIELD 6
CC LN21 5
4
3
2
DGND 1
FL9005
F1H0J10500
FL9012
F1H0J10500
FL9007
F1H0J10500
LB9007 J0JHC0000032
LB9001 J0JHC0000032
LB9004 J0JHC0000032

DN:Digital Net Section(Page: F)
AI:AV Input Section(Page: G)
EN:AV Encoder Section(Page: H)
AD:AV Decoder Section(Page: I)
S:System Control Section(Page: J)

G:Glue Section(Page: K)
DV:1394 DV Section(Page: L)
DS:RTSC Section(Page: M)
MP:MPEG4 Section(Page: N)

NOTE:DO NOT USE THE PART NUMBER SHOWN ON THIS
IN THE PARTS LIST,AND MAY BE SLIGHTLY DIFFER

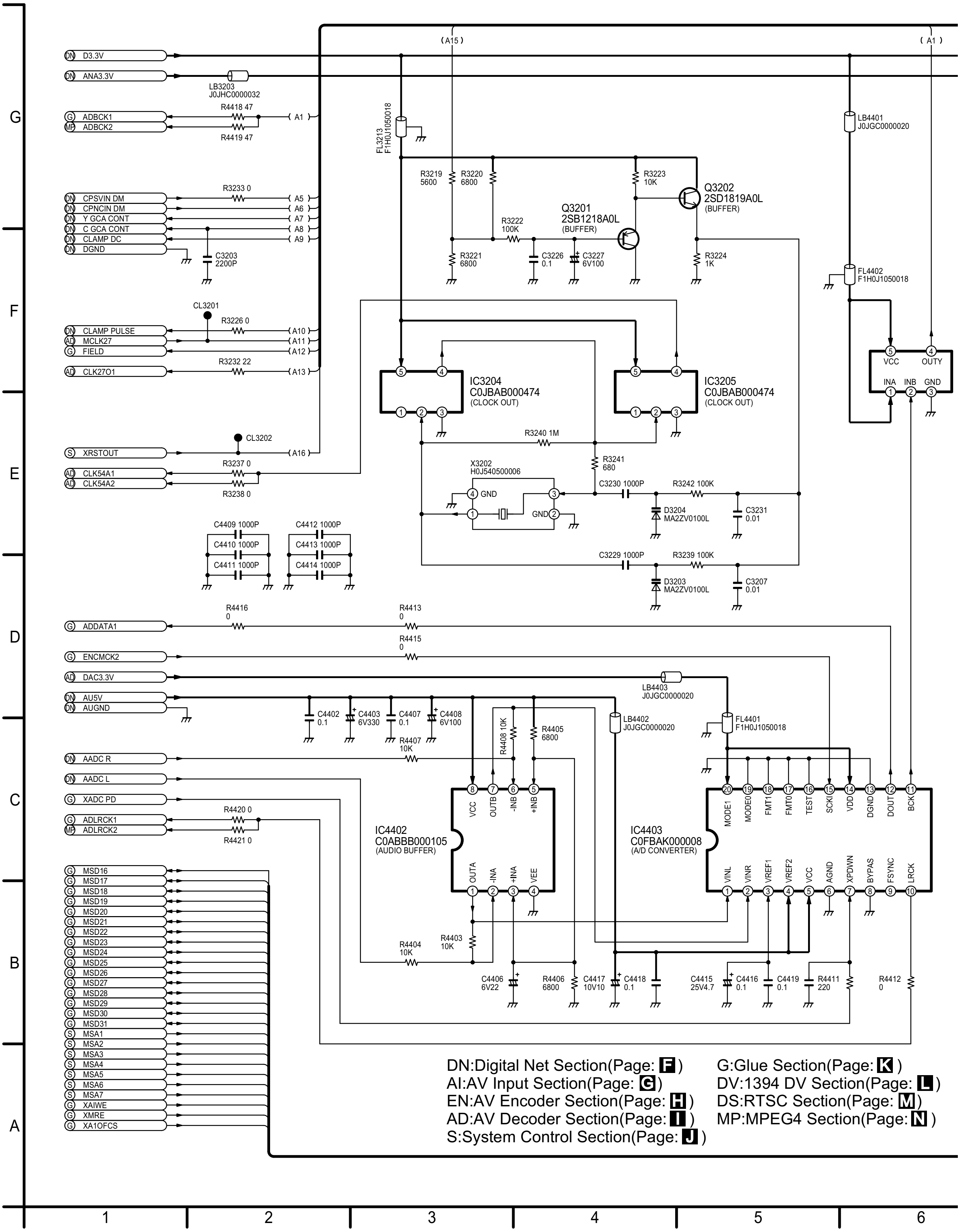

F
CPNCIN DM (AI)
CPSVIN DM (AI)
CLAMP PULSE (AI)
CLAMP DC (AI)
Y GCA COUT (AI)
COUT DM (AD)
YOUT DM (AD)
RPROUT DM (AD)
BPBOUT DM (AD)
GPYOUT DM (AD)
I2C5DT (G)
I2C5CK (G)
SCURVE0 (G)
SCURVE1 (G)
C GCA CONT (AI)
AU5V (AI)(AD)
AUGND (AI)(AD)
XDMUTE (AD)
XRESET (S)
MIXLOUT DM (AD)
MIXROUT DM (AD)
IECOUT (G)
AADC R (AI)
AADC L (AI)
ASEL0 (G)
ASEL1 (G)
FL9022 F1H0J1050018
C9013 6V47
D1.8V (EN)(DV)(AI)
FL9004 F1H0J1050018
C9001 6V47
D1.5V (AD)
FL9003 F1H0J1050018
C9006 6V47
X SW 5.9V (DS)
FL9013 F1H0J1050018
C9003 6V47
ANA3.3V (AI)(AD)(EN)(DV)
QR9001 UNR511100L (PROGRESSIVE:ON)
QR9005 UNR521300L (PROGRESSIVE:ON)
PRGSEL (H) (S)
FL9020 F1H0J1050018
C9011 6V47
D5V (G)(AD)(DS)
3 2 1
ON(H) GND VIN
NR GND VOUT
4 5 6
IC9002 C0DBCGD00001 (REG.D3V)
C9017 0.1
C9016 6V47
D3V (DV)
R9003 100
R9006 0
SW2 (S)
SBMTP (G)
SBPTM (G)
SCLK (G)
XMPREQ (G)
XINTM (G)
XINTP (G)
HDD REC (H)(GND) (G)
FL9005 F1H0J1050018
C9004 6V47
MP D1.8V (MP)
FL9012 F1H0J1050018
C9005 6V47
D3.3V (AI)(EN)(AD)(S)(G)(DS)(DV)(MP)
D2.5V (DS)
S D1.8V (S)
C9019 6V10
DGND (AI)(EN)(AD)(S)(G)(DS)(DV)(MP)
5 4
VO VIN
IC9001 C0DBZFE00003 (REG.S D+1.8V)
NR GND ON(H)
1 2 3
FL9007 F1H0J1050018
C9008 6V47
C9015 0.1
CC DATAI (G)
XCC CS2 (G)
CC DATAO (G)
CC CLK (G)
CC FIELD (G)
CC LN21 (G)

BER SHOWN ON THIS DRAWING FOR ORDERING. THE CORRECT PART NUMBER IS SHOWN
' BE SLIGHTLY DIFFERNT OR AMENDED SINCE THIS DRAWING WAS PREPARED.

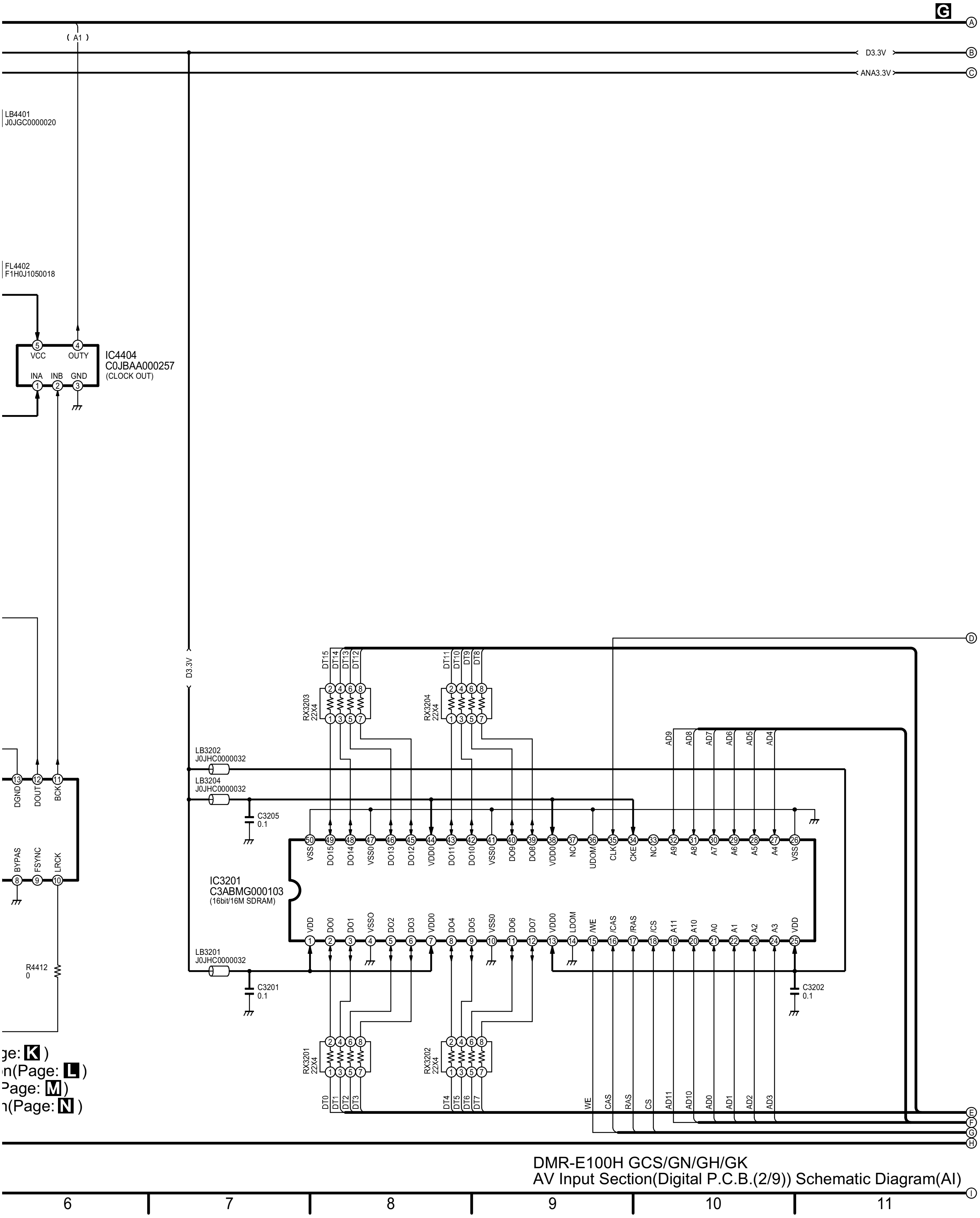
DMR-E100H GCS/GN/GH/GK
Digital Net Section(Digital P.C.B.(1/9))
Schematic Diagram(DN)

6	7	8	9	10	11

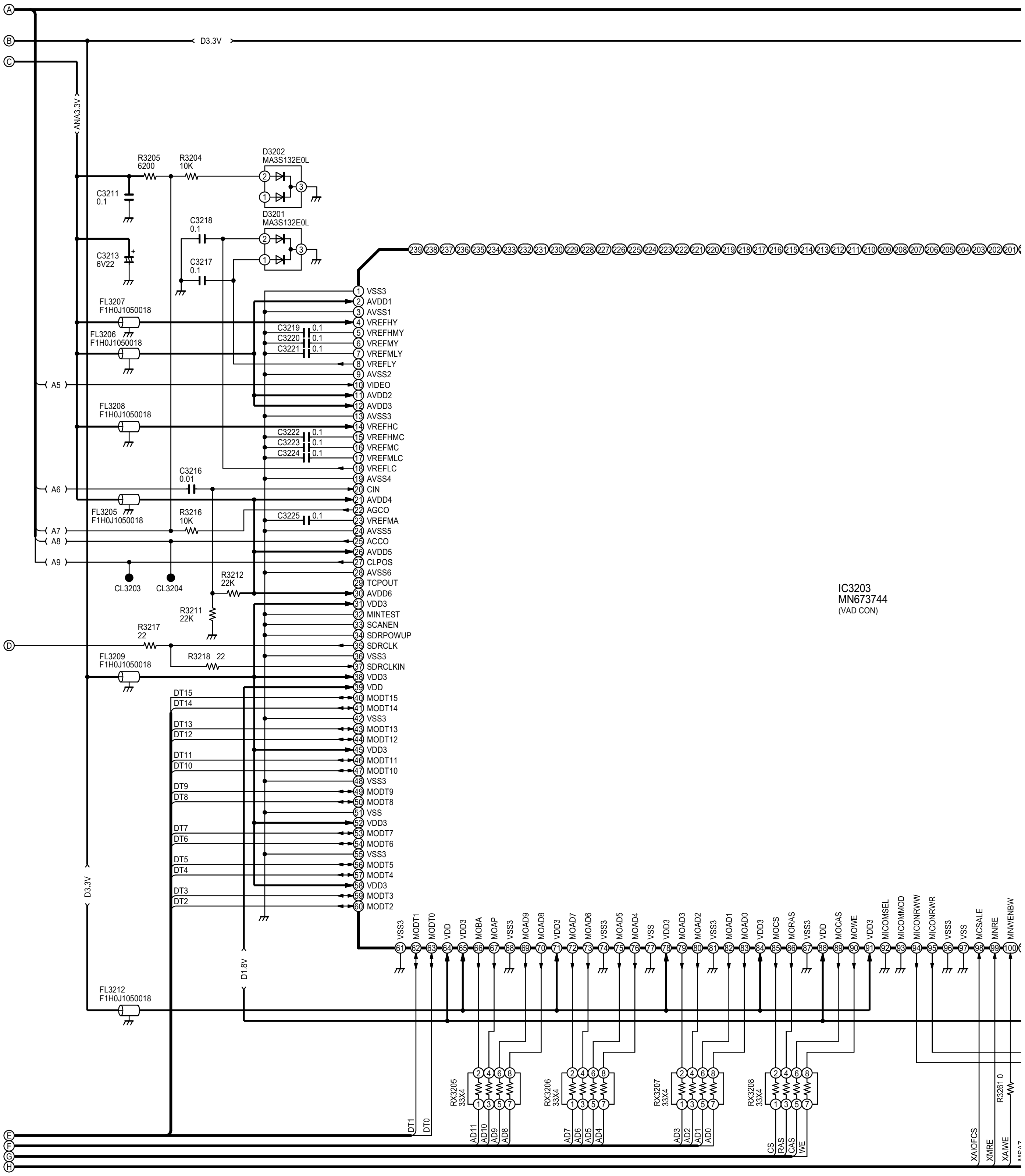
14.9. AV Input Schematic Diagram (AI) (Digital P.C.B. 2/9)


DN D3.3V
DN ANA3.3V
LB3203 J0JHC0000032
R4418 47
G ADBCK1
MP ADBCK2
R4419 47
A1
A15
FL3213 F1H0J1050018
R3219 5600
R3220 6800
R3223 10K
Q3202 2SD1819A0L (BUFFER)
R3233 0
DN CPSVIN DM
DN CPNCIN DM
DN Y GCA CONT
DN C GCA CONT
DN CLAMP DC
DN DGND
A5
A6
A7
A8
A9
R3222 100K
Q3201 2SB1218A0L (BUFFER)
C3203 2200P
R3221 6800
C3226 0.1
C3227 6V100
R3224 1K
LB4401 J0JGC0000020
FL4402 F1H0J1050018
CL3201
R3226 0
DN CLAMP PULSE
AD MCLK27
G FIELD
A10
A11
A12
R3232 22
AD CLK27O1
A13
IC3204 C0JBAB000474 (CLOCK OUT)
IC3205 C0JBAB000474 (CLOCK OUT)
VCC
OUTY
INA
INB
GND
CL3202
S XRSTOUT
A16
R3240 1M
R3237 0
AD CLK54A1
AD CLK54A2
R3238 0
R3241 680
X3202 H0J540500006
GND
C3230 1000P
R3242 100K
D3204 MA2ZV0100L
C3231 0.01
C4409 1000P
C4410 1000P
C4411 1000P
C4412 1000P
C4413 1000P
C4414 1000P
C3229 1000P
R3239 100K
D3203 MA2ZV0100L
C3207 0.01
R4416 0
R4413 0
G ADDATA1
R4415 0
G ENCMCK2
AD DAC3.3V
LB4403 J0JGC0000020
DN AU5V
DN AUGND
C4402 0.1
C4403 6V330
C4407 0.1
C4408 6V100
R4407 10K
R4408 10K
R4405 6800
LB4402 J0JGC0000020
FL4401 F1H0J1050018
DN AADC R
DN AADC L
G XADC PD
R4420 0
G ADLRCK1
MP ADLRCK2
R4421 0
IC4402 C0ABBB000105 (AUDIO BUFFER)
VCC
OUTB
-INB
+INB
OUTA
-INA
+INA
VEE
IC4403 C0FBAK000008 (A/D CONVERTER)
MODE1
MODE0
FMT1
FMT0
TEST
SCKI
VDD
DGND
DOUT
BCK
VINL
VINR
VREF1
VREF2
VCC
AGND
XPDWN
BYPAS
FSYNC
LRCK
G MSD16
G MSD17
G MSD18
G MSD19
G MSD20
G MSD21
G MSD22
G MSD23
G MSD24
G MSD25
G MSD26
G MSD27
G MSD28
G MSD29
G MSD30
G MSD31
S MSA1
S MSA2
S MSA3
S MSA4
S MSA5
S MSA6
S MSA7
G XAIWE
G XMRE
G XA1OFCS
R4404 10K
R4403 10K
C4406 6V22
R4406 6800
C4417 10V10
C4418 0.1
C4415 25V4.7
C4416 0.1
C4419 0.1
R4411 220
R4412 0
G
F
E
D
C
B
A
1
2
3
4
5
6

DN:Digital Net Section(Page: F)
AI:AV Input Section(Page: G)
EN:AV Encoder Section(Page: H)
AD:AV Decoder Section(Page: I)
S:System Control Section(Page: J)
G:Glue Section(Page: K)
DV:1394 DV Section(Page: L)
DS:RTSC Section(Page: M)
MP:MPEG4 Section(Page: N)


G
A
B
C
D
E
F
G
H
I
(A1)
D3.3V
ANA3.3V
LB4401
J0JGC0000020
FL4402
F1H0J1050018
IC4404
C0JBAA000257
(CLOCK OUT)
VCC
OUTY
INA
INB
GND
D3.3V
DGND
DOUT
BCK
BYPAS
FSYNC
LRCK
R4412
0
LB3202
J0JHC0000032
LB3204
J0JHC0000032
C3205
0.1
LB3201
J0JHC0000032
C3201
0.1
C3202
0.1
IC3201
C3ABMG000103
(16bit/16M SDRAM)
RX3203
22X4
RX3204
22X4
RX3201
22X4
RX3202
22X4
DT15
DT14
DT13
DT12
DT11
DT10
DT9
DT8
DT0
DT1
DT2
DT3
DT4
DT5
DT6
DT7
AD9
AD8
AD7
AD6
AD5
AD4
VSS
DO15
DO14
VSS0
DO13
DO12
VDD0
DO11
DO10
VSS0
DO9
DO8
VDD0
NC
UDOM
CLK
CKE
NC
A9
A8
A7
A6
A5
A4
VSS
VDD
DO0
DO1
VSS0
DO2
DO3
VDD0
DO4
DO5
VSS0
DO6
DO7
VDD0
LDOM
/WE
/CAS
/RAS
/CS
A11
A10
A0
A1
A2
A3
VDD
WE
CAS
RAS
CS
AD11
AD10
AD0
AD1
AD2
AD3
ge: K)
n(Page: L)
Page: M)
n(Page: N)
6
7
8
9
10
11

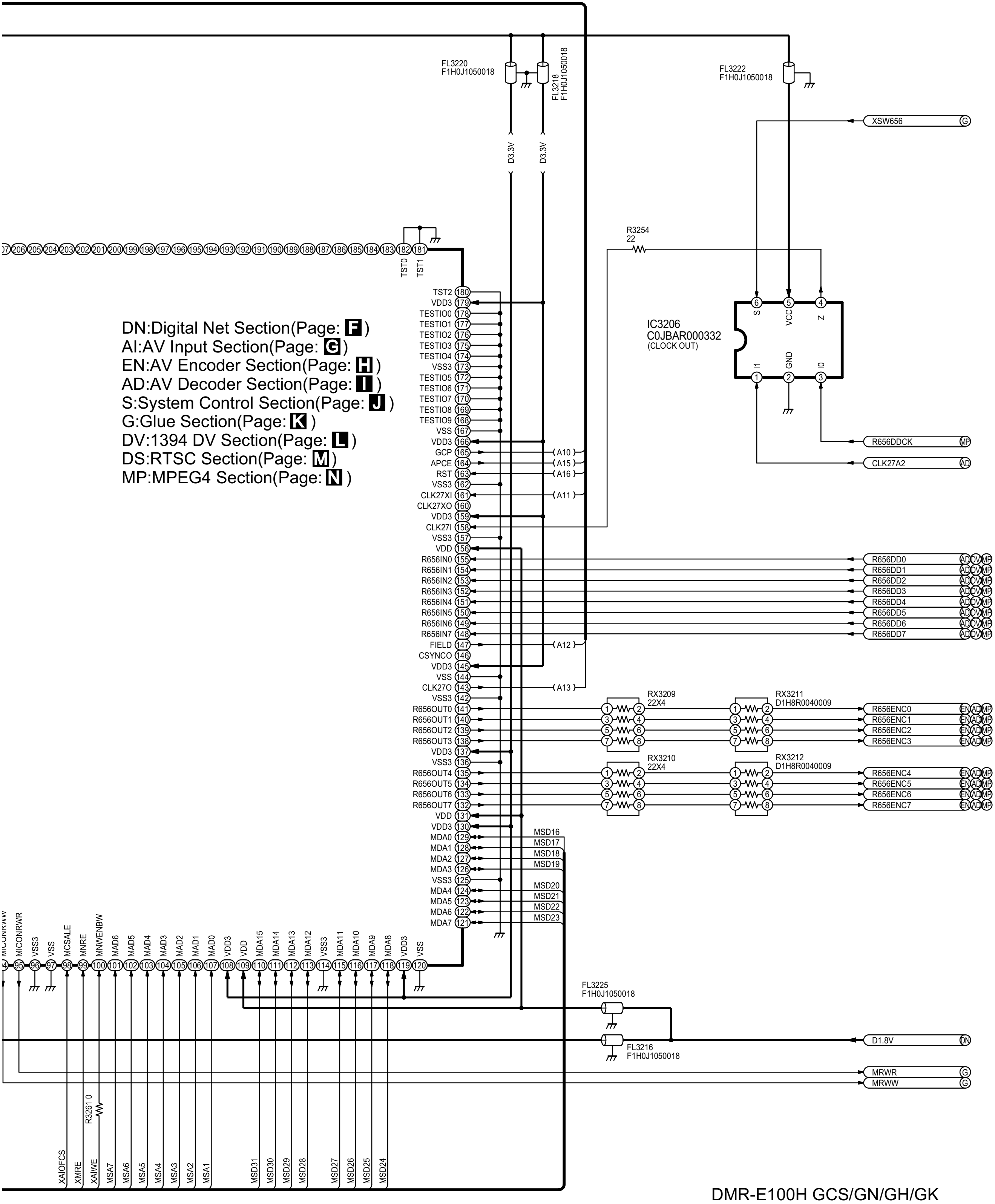
DMR-E100H GCS/GN/GH/GK
AV Input Section(Digital P.C.B.(2/9)) Schematic Diagram(AI)


A
B
C
D
E
F
G
H
D3.3V
ANA3.3V
R3205
6200
R3204
10K
D3202
MA3S132E0L
D3201
MA3S132E0L
C3211
0.1
C3218
0.1
C3213
6V22
C3217
0.1
FL3207
F1H0J1050018
FL3206
F1H0J1050018
FL3208
F1H0J1050018
FL3205
F1H0J1050018
FL3209
F1H0J1050018
FL3212
F1H0J1050018
A5
A6
A7
A8
A9
C3219 0.1
C3220 0.1
C3221 0.1
C3222 0.1
C3223 0.1
C3224 0.1
C3216
0.01
R3216
10K
C3225 0.1
CL3203
CL3204
R3212
22K
R3211
22K
R3217
22
R3218 22
DT15
DT14
DT13
DT12
DT11
DT10
DT9
DT8
DT7
DT6
DT5
DT4
DT3
DT2
D1.8V
1 VSS3
2 AVDD1
3 AVSS1
4 VREFHY
5 VREFHMY
6 VREFMY
7 VREFMLY
8 VREFLY
9 AVSS2
10 VIDEO
11 AVDD2
12 AVDD3
13 AVSS3
14 VREFHC
15 VREFHMC
16 VREFMC
17 VREFMLC
18 VREFLC
19 AVSS4
20 CIN
21 AVDD4
22 AGCO
23 VREFMA
24 AVSS5
25 ACCO
26 AVDD5
27 CLPOS
28 AVSS6
29 TCPOUT
30 AVDD6
31 VDD3
32 MINTEST
33 SCANEN
34 SDRPOWUP
35 SDRCLK
36 VSS3
37 SDRCLKIN
38 VDD3
39 VDD
40 MODT15
41 MODT14
42 VSS3
43 MODT13
44 MODT12
45 VDD3
46 MODT11
47 MODT10
48 VSS3
49 MODT9
50 MODT8
51 VSS
52 VDD3
53 MODT7
54 MODT6
55 VSS3
56 MODT5
57 MODT4
58 VDD3
59 MODT3
60 MODT2
61 VSS3
62 MODT1
63 MODT0
64 VDD
65 VDD3
66 MOBA
67 MOAP
68 VSS3
69 MOAD9
70 MOAD8
71 VDD3
72 MOAD7
73 MOAD6
74 VSS3
75 MOAD5
76 MOAD4
77 VSS
78 VDD3
79 MOAD3
80 MOAD2
81 VSS3
82 MOAD1
83 MOAD0
84 VDD3
85 MOCS
86 MORAS
87 VSS3
88 VDD
89 MOCAS
90 MOWE
91 VDD3
92 MICOMSEL
93 MICOMMOD
94 MICONRWW
95 MICONRWR
96 VSS3
97 VSS
98 MCSALE
99 MNRE
100 MNWENBW
239 238 237 236 235 234 233 232 231 230 229 228 227 226 225 224 223 222 221 220 219 218 217 216 215 214 213 212 211 210 209 208 207 206 205 204 203 202 201
IC3203
MN673744
(VAD CON)
RX3205
33X4
RX3206
33X4
RX3207
33X4
RX3208
33X4
R3261 0
DT1
DT0
AD11
AD10
AD9
AD8
AD7
AD6
AD5
AD4
AD3
AD2
AD1
AD0
CS
RAS
CAS
WE
XAIOFCS
XMRE
XAIWE

DMR-E100H GCS/GN/GH/GK
AV Input Section(Digital P.C.B.(2/9)) Schematic Diagram(AI)

I

12 13 14 15 16 17


FL3220
F1H0J1050018
FL3218
F1H0J1050018
FL3222
F1H0J1050018
D3.3V
D3.3V
XSW656
R3254
22
IC3206
C0JBAR000332
(CLOCK OUT)
S
VCC
Z
I1
GND
I0
R656DDCK
CLK27A2
TST0
TST1
TST2
VDD3
TESTIO0
TESTIO1
TESTIO2
TESTIO3
TESTIO4
VSS3
TESTIO5
TESTIO6
TESTIO7
TESTIO8
TESTIO9
VSS
VDD3
GCP
APCE
RST
VSS3
CLK27XI
CLK27XO
VDD3
CLK27I
VSS3
VDD
R656IN0
R656IN1
R656IN2
R656IN3
R656IN4
R656IN5
R656IN6
R656IN7
FIELD
CSYNCO
VDD3
VSS
CLK27O
VSS3
R656OUT0
R656OUT1
R656OUT2
R656OUT3
VDD3
VSS3
R656OUT4
R656OUT5
R656OUT6
R656OUT7
VDD
VDD3
MDA0
MDA1
MDA2
MDA3
VSS3
MDA4
MDA5
MDA6
MDA7
A10
A15
A16
A11
A12
A13
R656DD0
R656DD1
R656DD2
R656DD3
R656DD4
R656DD5
R656DD6
R656DD7
AD DV MP
RX3209
22X4
RX3211
D1H8R0040009
RX3210
22X4
RX3212
D1H8R0040009
R656ENC0
R656ENC1
R656ENC2
R656ENC3
R656ENC4
R656ENC5
R656ENC6
R656ENC7
EN AD MP
MSD16
MSD17
MSD18
MSD19
MSD20
MSD21
MSD22
MSD23
MICONRWW
MICONRWR
VSS3
VSS
MCSALE
MNRE
MNWENBW
MAD6
MAD5
MAD4
MAD3
MAD2
MAD1
MAD0
VDD3
VDD
MDA15
MDA14
MDA13
MDA12
VSS3
MDA11
MDA10
MDA9
MDA8
VDD3
VSS
FL3225
F1H0J1050018
FL3216
F1H0J1050018
D1.8V
DN
MRWR
MRWW
G
R3261 0
XAIOFCS
XMRE
XAIWE
MSA7
MSA6
MSA5
MSA4
MSA3
MSA2
MSA1
MSD31
MSD30
MSD29
MSD28
MSD27
MSD26
MSD25
MSD24

DN:Digital Net Section(Page: **F**)
AI:AV Input Section(Page: **G**)
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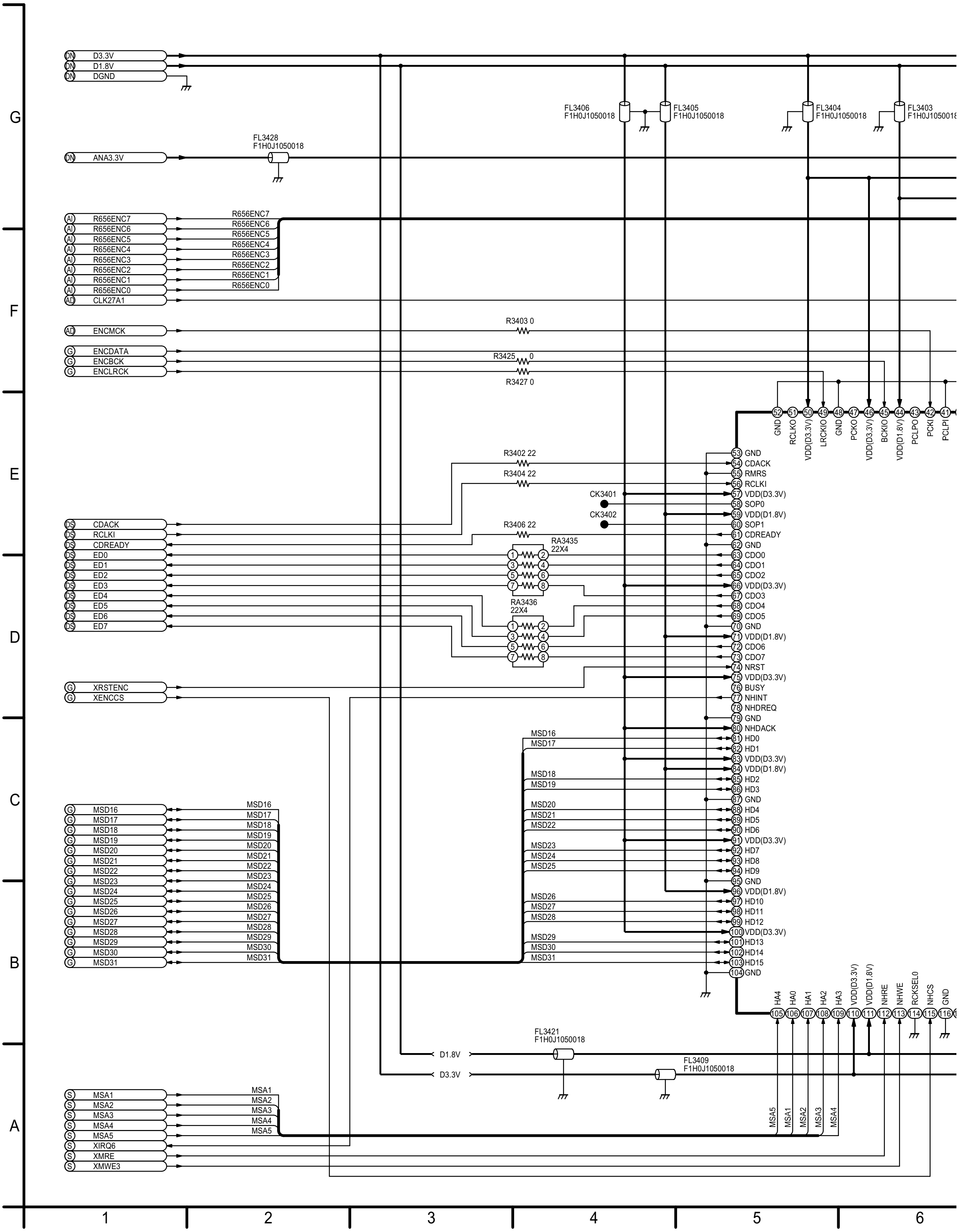
S:System Control Section(Page: **J**)
G:Glue Section(Page: **K**)
DV:1394 DV Section(Page: **L**)
DS:RTSC Section(Page: **M**)
MP:MPEG4 Section(Page: **N**)

DMR-E100H GCS/GN/GH/GK
AV Input Section(Digital P.C.B.(2/9))
Schematic Diagram(AI)

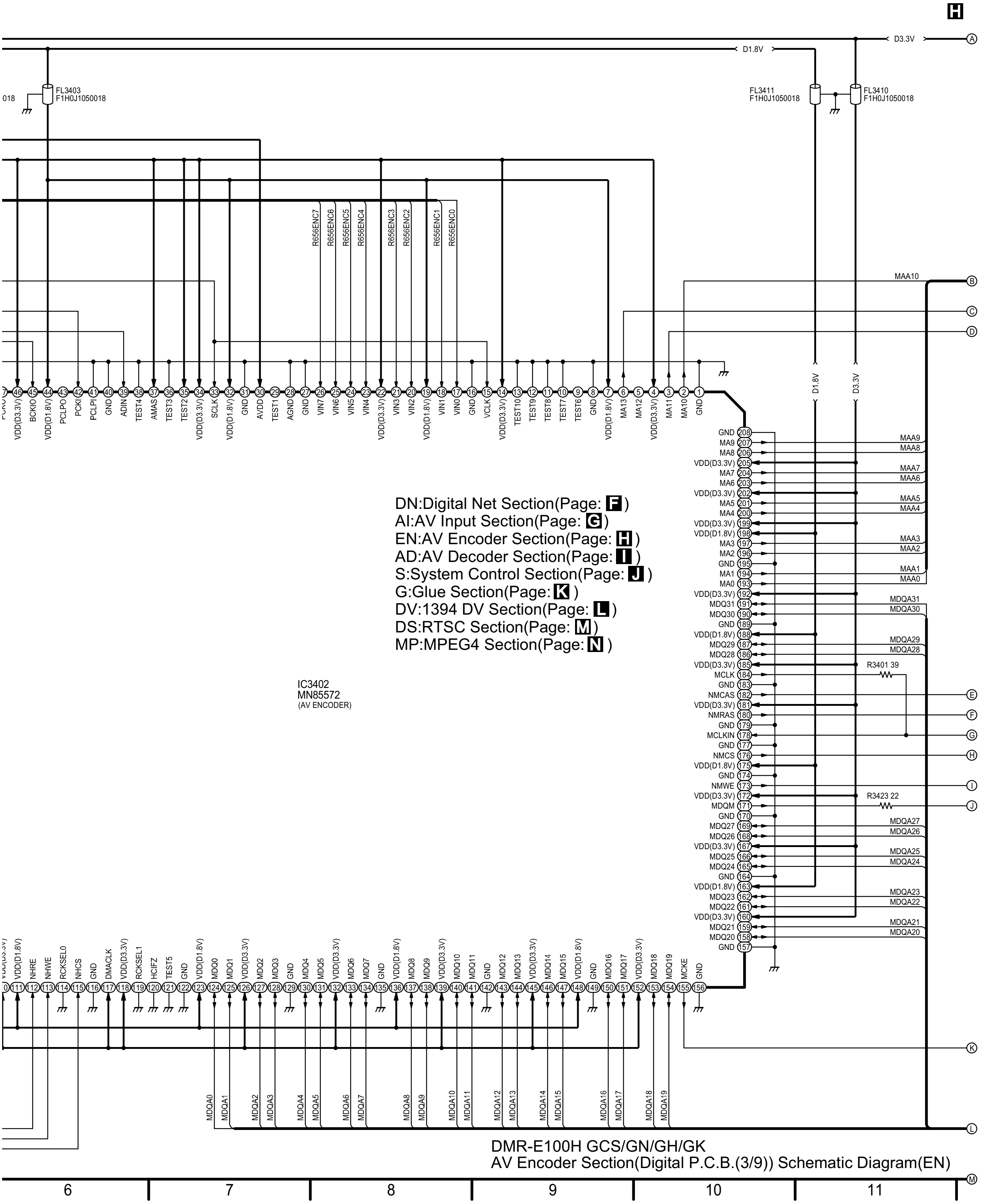
NOTE:DO NOT USE THE PART NUMBER SHOWN ON THIS DRAWING FOR ORDERRING.THE CORRECT PART NUMBER IS SHOWN IN THE PARTS LIST,AND MAY BE SLIGHTLY DIFFERNT OR AMENDED SINCE THIS DRAWING WAS PREPARED.

17	18	19	20	21	22

14.10. AV Encoder Schematic Diagram (EN) (Digital P.C.B. 3/9)



G
F
E
D
C
B
A
1
2
3
4
5
6
D3.3V
D1.8V
DGND
ANA3.3V
FL3428
F1H0J1050018
FL3406
F1H0J1050018
FL3405
F1H0J1050018
FL3404
F1H0J1050018
FL3403
F1H0J105001
R656ENC7
R656ENC6
R656ENC5
R656ENC4
R656ENC3
R656ENC2
R656ENC1
R656ENC0
CLK27A1
ENCMCK
ENCDATA
ENCBCK
ENCLRCK
R3403 0
R3425 0
R3427 0
R3402 22
R3404 22
R3406 22
CK3401
CK3402
RA3435
22X4
RA3436
22X4
CDACK
RCLKI
CDREADY
ED0
ED1
ED2
ED3
ED4
ED5
ED6
ED7
XRSTENC
XENCCS
MSD16
MSD17
MSD18
MSD19
MSD20
MSD21
MSD22
MSD23
MSD24
MSD25
MSD26
MSD27
MSD28
MSD29
MSD30
MSD31
MSA1
MSA2
MSA3
MSA4
MSA5
XIRQ6
XMRE
XMWE3
FL3421
F1H0J1050018
FL3409
F1H0J1050018
52 GND
51 RCLKO
50 VDD(D3.3V)
49 LRCKIO
48 GND
47 PCKO
46 VDD(D3.3V)
45 BCKIO
44 VDD(D1.8V)
43 PCLPO
42 PCKI
41 PCLPI
53 GND
54 CDACK
55 RMRS
56 RCLKI
57 VDD(D3.3V)
58 SOP0
59 VDD(D1.8V)
60 SOP1
61 CDREADY
62 GND
63 CDO0
64 CDO1
65 CDO2
66 VDD(D3.3V)
67 CDO3
68 CDO4
69 CDO5
70 GND
71 VDD(D1.8V)
72 CDO6
73 CDO7
74 NRST
75 VDD(D3.3V)
76 BUSY
77 NHINT
78 NHDREQ
79 GND
80 NHDACK
81 HD0
82 HD1
83 VDD(D3.3V)
84 VDD(D1.8V)
85 HD2
86 HD3
87 GND
88 HD4
89 HD5
90 HD6
91 VDD(D3.3V)
92 HD7
93 HD8
94 HD9
95 GND
96 VDD(D1.8V)
97 HD10
98 HD11
99 HD12
100 VDD(D3.3V)
101 HD13
102 HD14
103 HD15
104 GND
105 HA4
106 HA0
107 HA1
108 HA2
109 HA3
110 VDD(D3.3V)
111 VDD(D1.8V)
112 NHRE
113 NHWE
114 RCKSEL0
115 NHCS
116 GND


H
D3.3V
A
D1.8V
018
FL3403
F1H0J1050018
FL3411
F1H0J1050018
FL3410
F1H0J1050018
R656ENC7
R656ENC6
R656ENC5
R656ENC4
R656ENC3
R656ENC2
R656ENC1
R656ENC0
MAA10
B
C
D
D1.8V
D3.3V
46 VDD(D3.3V)
45 BCKIO
44 VDD(D1.8V)
43 PCLPO
42 PCKI
41 PCLPI
40 GND
39 ADIN
38 TEST4
37 AMAS
36 TEST3
35 TEST2
34 VDD(D3.3V)
33 SCLK
32 VDD(D1.8V)
31 GND
30 AVDD
29 TEST1
28 AGND
27 GND
26 VIN7
25 VIN6
24 VIN5
23 VIN4
22 VDD(D3.3V)
21 VIN3
20 VIN2
19 VDD(D1.8V)
18 VIN1
17 VIN0
16 GND
15 VCLK
14 VDD(D3.3V)
13 TEST10
12 TEST9
11 TEST8
10 TEST7
9 TEST6
8 GND
7 VDD(D1.8V)
6 MA13
5 MA12
4 VDD(D3.3V)
3 MA11
2 MA10
1 GND
GND 208
MA9 207
MA8 206
VDD(D3.3V) 205
MA7 204
MA6 203
VDD(D3.3V) 202
MA5 201
MA4 200
VDD(D3.3V) 199
VDD(D1.8V) 198
MA3 197
MA2 196
GND 195
MA1 194
MA0 193
VDD(D3.3V) 192
MDQ31 191
MDQ30 190
GND 189
VDD(D1.8V) 188
MDQ29 187
MDQ28 186
VDD(D3.3V) 185
MCLK 184
GND 183
NMCAS 182
VDD(D3.3V) 181
NMRAS 180
GND 179
MCLKIN 178
GND 177
NMCS 176
VDD(D1.8V) 175
GND 174
NMWE 173
VDD(D3.3V) 172
MDQM 171
GND 170
MDQ27 169
MDQ26 168
VDD(D3.3V) 167
MDQ25 166
MDQ24 165
GND 164
VDD(D1.8V) 163
MDQ23 162
MDQ22 161
VDD(D3.3V) 160
MDQ21 159
MDQ20 158
GND 157
MAA9
MAA8
MAA7
MAA6
MAA5
MAA4
MAA3
MAA2
MAA1
MAA0
MDQA31
MDQA30
MDQA29
MDQA28
R3401 39
E
F
G
H
I
R3423 22
J
MDQA27
MDQA26
MDQA25
MDQA24
MDQA23
MDQA22
MDQA21
MDQA20
IC3402
MN85572
(AV ENCODER)
111 VDD(D1.8V)
112 NHRE
113 NHWE
114 RCKSEL0
115 NHCS
116 GND
117 DMACLK
118 VDD(D3.3V)
119 RCKSEL1
120 HCIFZ
121 TEST5
122 GND
123 VDD(D1.8V)
124 MDQ0
125 MDQ1
126 VDD(D3.3V)
127 MDQ2
128 MDQ3
129 GND
130 MDQ4
131 MDQ5
132 VDD(D3.3V)
133 MDQ6
134 MDQ7
135 GND
136 VDD(D1.8V)
137 MDQ8
138 MDQ9
139 VDD(D3.3V)
140 MDQ10
141 MDQ11
142 GND
143 MDQ12
144 MDQ13
145 VDD(D3.3V)
146 MDQ14
147 MDQ15
148 VDD(D1.8V)
149 GND
150 MDQ16
151 MDQ17
152 VDD(D3.3V)
153 MDQ18
154 MDQ19
155 MCKE
156 GND
K
MDQA0
MDQA1
MDQA2
MDQA3
MDQA4
MDQA5
MDQA6
MDQA7
MDQA8
MDQA9
MDQA10
MDQA11
MDQA12
MDQA13
MDQA14
MDQA15
MDQA16
MDQA17
MDQA18
MDQA19
L
M
6
7
8
9
10
11

DN:Digital Net Section(Page: **F**)
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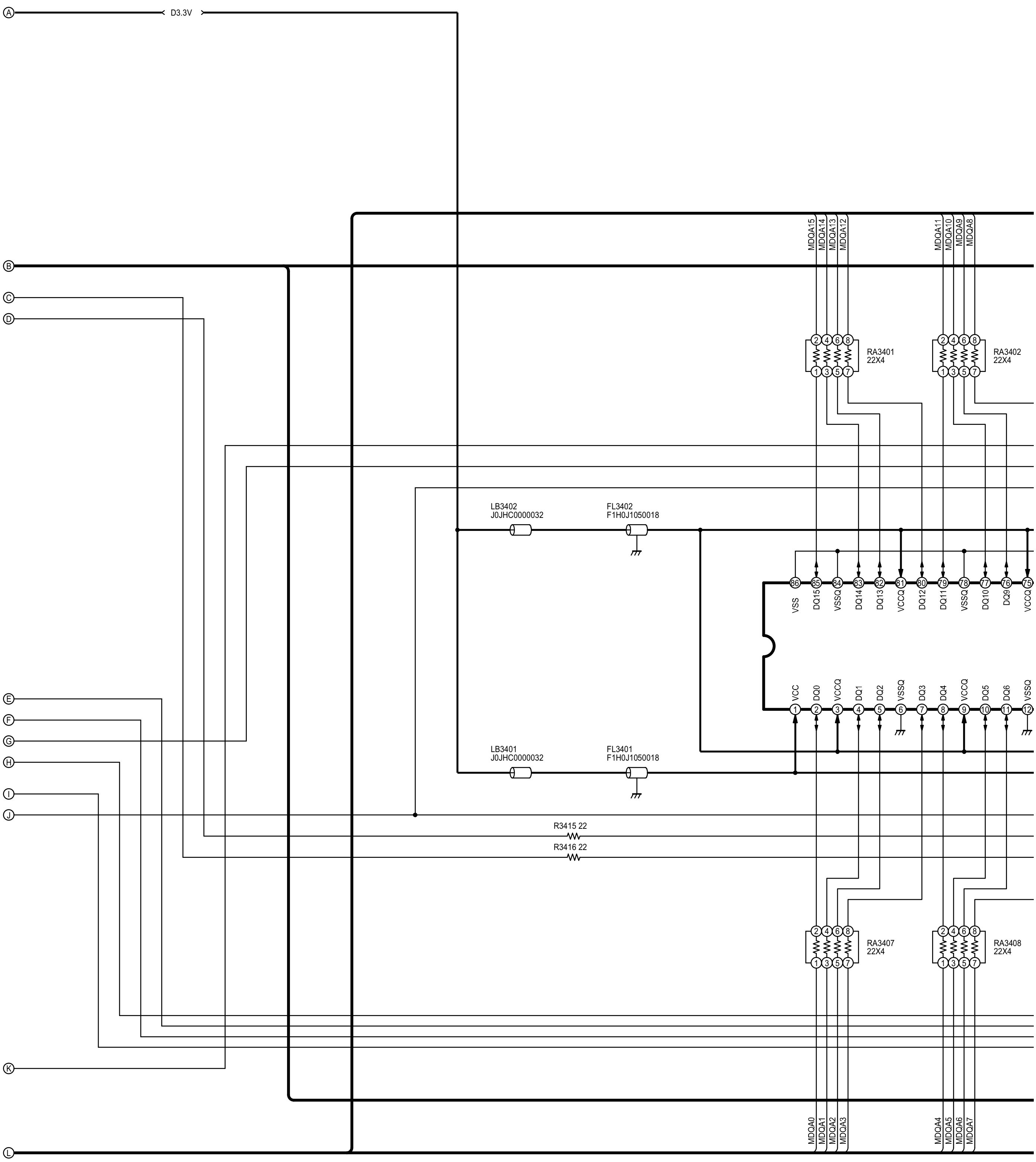
MP:MPEG4 Section(Page: **N**)

DMR-E100H GCS/GN/GH/GK
AV Encoder Section(Digital P.C.B.(3/9)) Schematic Diagram(EN)


A
D3.3V
B
C
D
MDQA15
MDQA14
MDQA13
MDQA12
MDQA11
MDQA10
MDQA9
MDQA8
RA3401
22X4
RA3402
22X4
2 4 6 8
1 3 5 7
LB3402
J0JHC0000032
FL3402
F1H0J1050018
86 85 84 83 82 81 80 79 78 77 76 75
VSS
DQ15
VSSQ
DQ14
DQ13
VCCQ
DQ12
DQ11
VSSQ
DQ10
DQ9
VCCQ
VCC
DQ0
VCCQ
DQ1
DQ2
VSSQ
DQ3
DQ4
VCCQ
DQ5
DQ6
VSSQ
1 2 3 4 5 6 7 8 9 10 11 12
E
F
G
H
I
J
LB3401
J0JHC0000032
FL3401
F1H0J1050018
R3415 22
R3416 22
RA3407
22X4
RA3408
22X4
K
MDQA0
MDQA1
MDQA2
MDQA3
MDQA4
MDQA5
MDQA6
MDQA7
L

DMR-E100H GCS/GN/GH/GK
AV Encoder Section(Digital P.C.B.(3/9)) Schematic Diagram(EN)

NOTE:DO NOT USE THE PART N
IN THE PARTS LIST,AND M

M

12	13	14	15	16	17

H

DN:Digital Net Section(Page: **F**)
AI:AV Input Section(Page: **G**)
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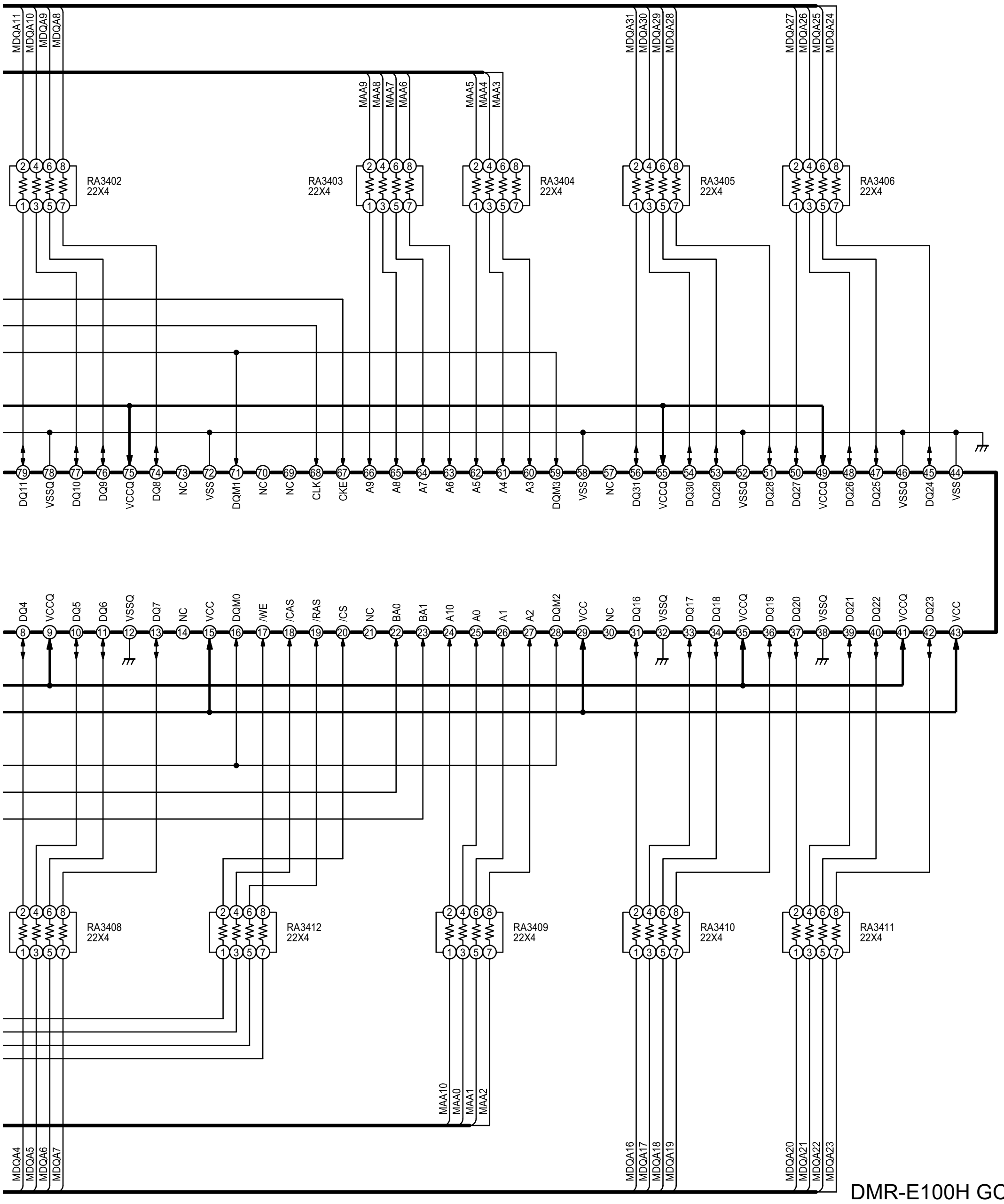
G:Glue Section(Page: **K**)
DV:1394 DV Section(Page: **L**)
DS:RTSC Section(Page: **M**)
MP:MPEG4 Section(Page: **N**)



MDQA11
MDQA10
MDQA9
MDQA8
MAA9
MAA8
MAA7
MAA6
MAA5
MAA4
MAA3
MDQA31
MDQA30
MDQA29
MDQA28
MDQA27
MDQA26
MDQA25
MDQA24
RA3402 22X4
RA3403 22X4
RA3404 22X4
RA3405 22X4
RA3406 22X4
2 4 6 8
1 3 5 7
79 DQ11
78 VSSQ
77 DQ10
76 DQ9
75 VCCQ
74 DQ8
73 NC
72 VSS
71 DQM1
70 NC
69 NC
68 CLK
67 CKE
66 A9
65 A8
64 A7
63 A6
62 A5
61 A4
60 A3
59 DQM3
58 VSS
57 NC
56 DQ31
55 VCCQ
54 DQ30
53 DQ29
52 VSSQ
51 DQ28
50 DQ27
49 VCCQ
48 DQ26
47 DQ25
46 VSSQ
45 DQ24
44 VSS
IC3401
C3ABPJ000018
(32bit/64M SDRAM)
8 DQ4
9 VCCQ
10 DQ5
11 DQ6
12 VSSQ
13 DQ7
14 NC
15 VCC
16 DQM0
17 /WE
18 /CAS
19 /RAS
20 /CS
21 NC
22 BA0
23 BA1
24 A10
25 A0
26 A1
27 A2
28 DQM2
29 VCC
30 NC
31 DQ16
32 VSSQ
33 DQ17
34 DQ18
35 VCCQ
36 DQ19
37 DQ20
38 VSSQ
39 DQ21
40 DQ22
41 VCCQ
42 DQ23
43 VCC
RA3408 22X4
RA3412 22X4
RA3409 22X4
RA3410 22X4
RA3411 22X4
MAA10
MAA0
MAA1
MAA2
MDQA4
MDQA5
MDQA6
MDQA7
MDQA16
MDQA17
MDQA18
MDQA19
MDQA20
MDQA21
MDQA22
MDQA23

DMR-E100H GCS/GN/GH/GK
AV Encoder Section(Digital P.C.B.(3/9))
Schematic Diagram(EN)

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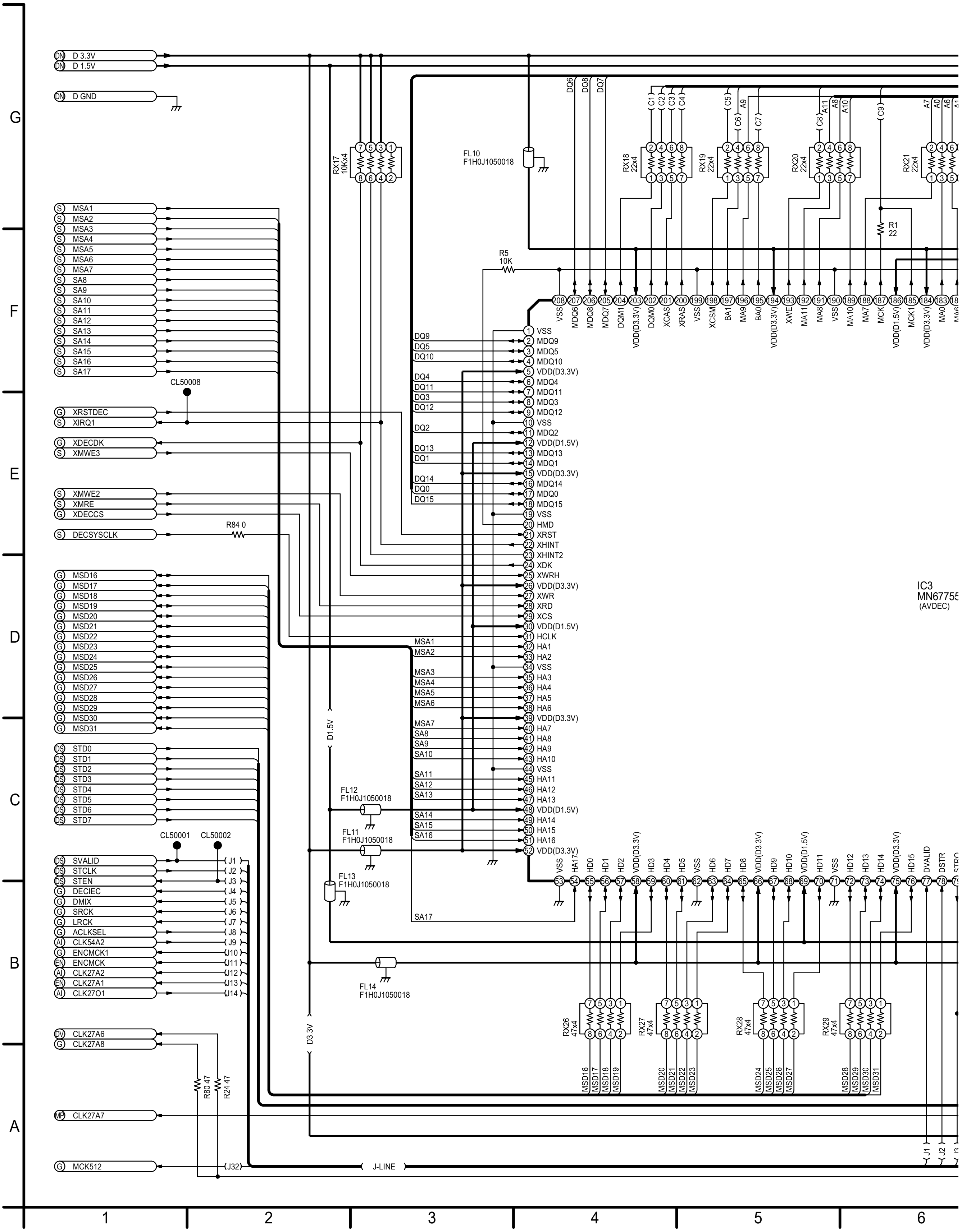
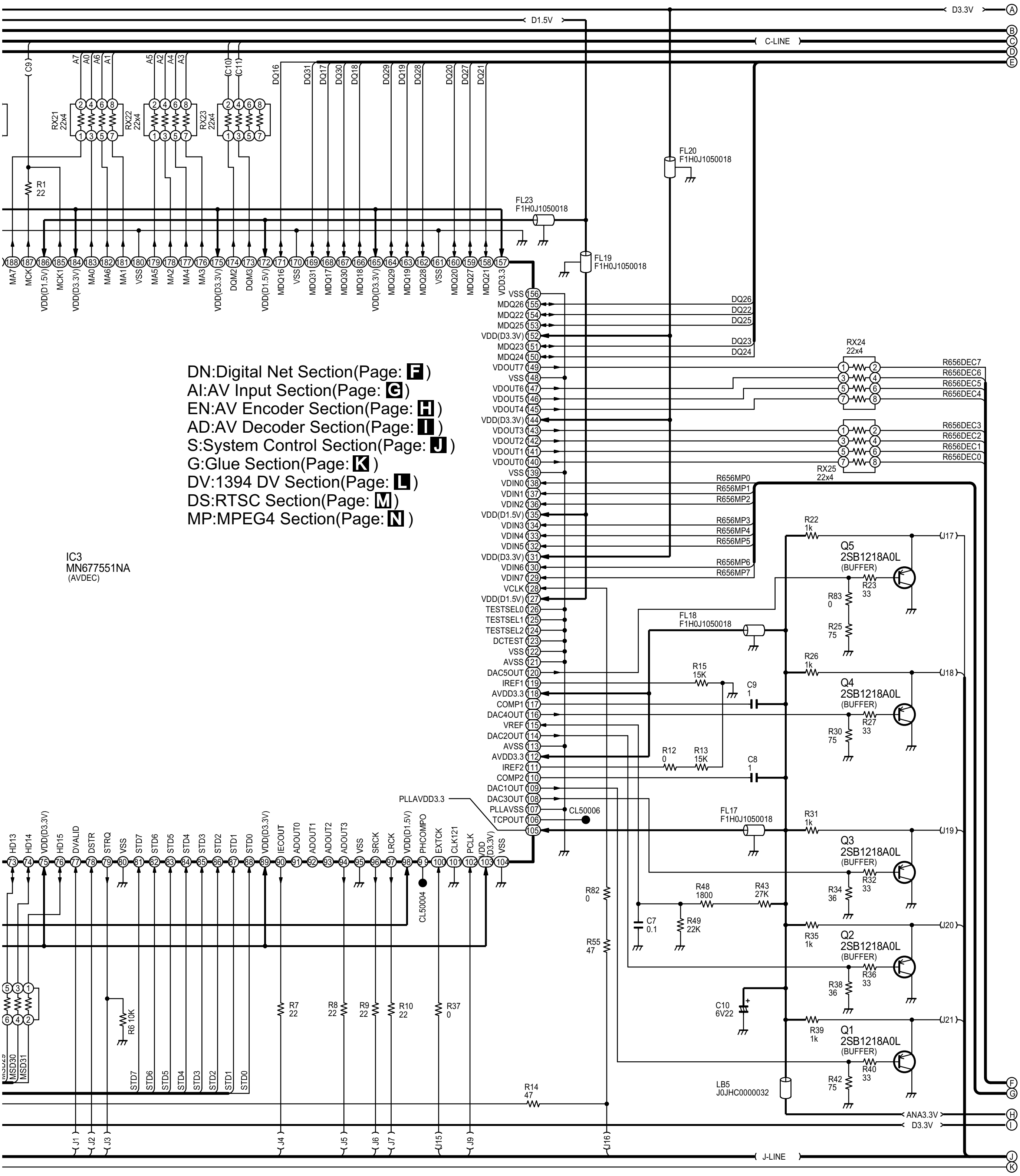
17	18	19	20	21	22

14.11. AV Decoder Schematic Diagram (AD) (Digital P.C.B. 4/9)



G
F
E
D
C
B
A
1
2
3
4
5
6
D 3.3V
D 1.5V
D GND
MSA1
MSA2
MSA3
MSA4
MSA5
MSA6
MSA7
SA8
SA9
SA10
SA11
SA12
SA13
SA14
SA15
SA16
SA17
CL50008
XRSTDEC
XIRQ1
XDECDK
XMWE3
XMWE2
XMRE
XDECCS
R84 0
DECSYSCLK
MSD16
MSD17
MSD18
MSD19
MSD20
MSD21
MSD22
MSD23
MSD24
MSD25
MSD26
MSD27
MSD28
MSD29
MSD30
MSD31
STD0
STD1
STD2
STD3
STD4
STD5
STD6
STD7
CL50001
CL50002
SVALID
STCLK
STEN
DECIEC
DMIX
SRCK
LRCK
ACLKSEL
CLK54A2
ENCMCK1
ENCMCK
CLK27A2
CLK27A1
CLK27O1
CLK27A6
CLK27A8
R80 47
R24 47
CLK27A7
MCK512
J-LINE
J1
J2
J3
J4
J5
J6
J7
J8
J9
J10
J11
J12
J13
J14
J32
RX17 10Kx4
FL10 F1H0J1050018
FL11 F1H0J1050018
FL12 F1H0J1050018
FL13 F1H0J1050018
FL14 F1H0J1050018
D1.5V
D3.3V
R5 10K
R1 22
RX18 22x4
RX19 22x4
RX20 22x4
RX21 22x4
RX26 47x4
RX27 47x4
RX28 47x4
RX29 47x4
C1
C2
C3
C4
C5
C6
C7
C8
C9
A9
A11
A8
A10
A7
A0
A6
DQ6
DQ8
DQ7
DQ9
DQ5
DQ10
DQ4
DQ11
DQ3
DQ12
DQ2
DQ13
DQ1
DQ14
DQ0
DQ15
1 VSS
2 MDQ9
3 MDQ5
4 MDQ10
5 VDD(D3.3V)
6 MDQ4
7 MDQ11
8 MDQ3
9 MDQ12
10 VSS
11 MDQ2
12 VDD(D1.5V)
13 MDQ13
14 MDQ1
15 VDD(D3.3V)
16 MDQ14
17 MDQ0
18 MDQ15
19 VSS
20 HMD
21 XRST
22 XHINT
23 XHINT2
24 XDK
25 XWRH
26 VDD(D3.3V)
27 XWR
28 XRD
29 XCS
30 VDD(D1.5V)
31 HCLK
32 HA1
33 HA2
34 VSS
35 HA3
36 HA4
37 HA5
38 HA6
39 VDD(D3.3V)
40 HA7
41 HA8
42 HA9
43 HA10
44 VSS
45 HA11
46 HA12
47 HA13
48 VDD(D1.5V)
49 HA14
50 HA15
51 HA16
52 VDD(D3.3V)
53 VSS
54 HA17
55 HD0
56 HD1
57 HD2
58 VDD(D3.3V)
59 HD3
60 HD4
61 HD5
62 VSS
63 HD6
64 HD7
65 HD8
66 VDD(D3.3V)
67 HD9
68 HD10
69 VDD(D1.5V)
70 HD11
71 VSS
72 HD12
73 HD13
74 HD14
75 VDD(D3.3V)
76 HD15
77 DVALID
78 DSTR
208 VSS
207 MDQ6
206 MDQ8
205 MDQ7
204 DQM1
203 VDD(D3.3V)
202 DQM0
201 XCAS
200 XRAS
199 VSS
198 XCSM
197 BA1
196 MA9
195 BA0
194 VDD(D3.3V)
193 XWE
192 MA11
191 MA8
190 VSS
189 MA10
188 MA7
187 MCK
186 VDD(D1.5V)
185 MCK1
184 VDD(D3.3V)
183 MA0
IC3
MN67755
(AVDEC)


D3.3V
D1.5V
C-LINE
RX21 22x4
RX22 22x4
RX23 22x4
R1 22
FL20 F1H0J1050018
FL23 F1H0J1050018
FL19 F1H0J1050018
RX24 22x4
RX25 22x4
R656DEC7
R656DEC6
R656DEC5
R656DEC4
R656DEC3
R656DEC2
R656DEC1
R656DEC0
R656MP0
R656MP1
R656MP2
R656MP3
R656MP4
R656MP5
R656MP6
R656MP7
IC3
MN677551NA
(AVDEC)
R22 1k
Q5 2SB1218A0L (BUFFER)
R23 33
R83 0
R25 75
FL18 F1H0J1050018
R26 1k
Q4 2SB1218A0L (BUFFER)
R15 15K
C9 1
R27 33
R30 75
R12 0
R13 15K
C8 1
PLLAVDD3.3
CL50006
FL17 F1H0J1050018
R31 1k
Q3 2SB1218A0L (BUFFER)
R32 33
R34 36
R82 0
R48 1800
R43 27K
C7 0.1
R49 22K
R35 1k
Q2 2SB1218A0L (BUFFER)
R55 47
R36 33
R38 36
C10 6V22
R39 1k
Q1 2SB1218A0L (BUFFER)
R40 33
R42 75
LB5 J0JHC0000032
R14 47
R6 10K
R7 22
R8 22
R9 22
R10 22
R37 0
CL50004
ANA3.3V
D3.3V
J-LINE
A
B
C
D
E
F
G
H
I
J
K
L
6
7
8
9
10
11

DN:Digital Net Section(Page: F)
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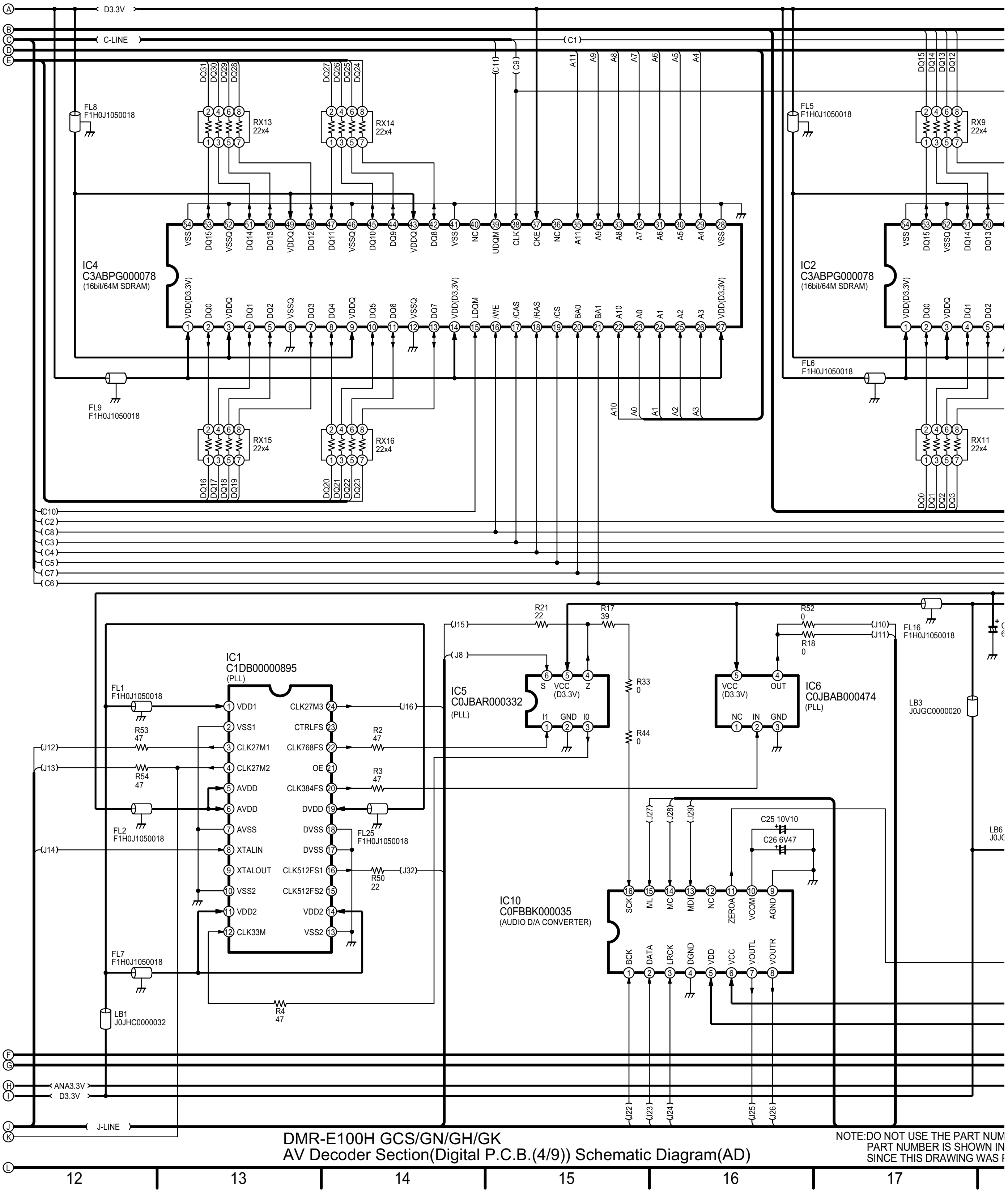
S:System Control Section(Page: J)
G:Glue Section(Page: K)
DV:1394 DV Section(Page: L)
DS:RTSC Section(Page: M)
MP:MPEG4 Section(Page: N)

DMR-E100H GCS/GN/GH/GK AV Decoder Section(Digital P.C.B.(4/9)) Schematic Diagram(AD)


D3.3V
C-LINE
IC4
C3ABPG000078
(16bit/64M SDRAM)
IC2
C3ABPG000078
(16bit/64M SDRAM)
RX13 22x4
RX14 22x4
RX15 22x4
RX16 22x4
RX9 22x4
RX11 22x4
FL8 F1H0J1050018
FL9 F1H0J1050018
FL5 F1H0J1050018
FL6 F1H0J1050018
IC1
C1DB00000895
(PLL)
FL1 F1H0J1050018
FL2 F1H0J1050018
FL7 F1H0J1050018
FL25 F1H0J1050018
R53 47
R54 47
R2 47
R3 47
R50 22
R4 47
LB1 J0JHC0000032
IC5
C0JBAR000332
(PLL)
R21 22
R17 39
R33 0
R44 0
IC6
C0JBAB000474
(PLL)
R52 0
R18 0
FL16 F1H0J1050018
LB3 J0JGC0000020
LB6
IC10
C0FBBK000035
(AUDIO D/A CONVERTER)
C25 10V10
C26 6V47
ANA3.3V
D3.3V
J-LINE
12
13
14
15
16
17

DMR-E100H GCS/GN/GH/GK
AV Decoder Section(Digital P.C.B.(4/9)) Schematic Diagram(AD)

NOTE:DO NOT USE THE PART NUM
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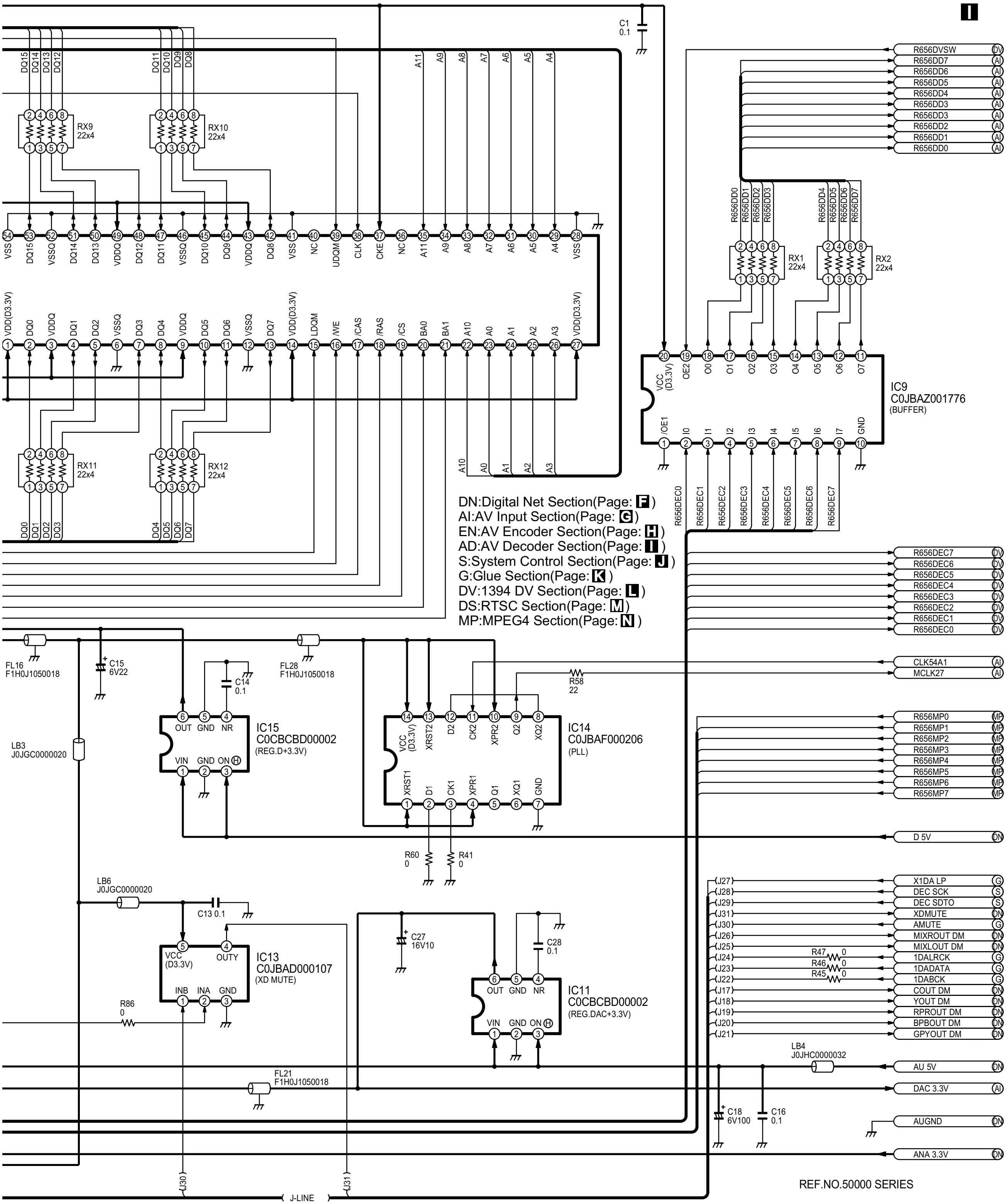
SINCE THIS DRAWING WAS F


I
C1 0.1
RX9 22x4
RX10 22x4
RX11 22x4
RX12 22x4
RX1 22x4
RX2 22x4
DQ15 DQ14 DQ13 DQ12 DQ11 DQ10 DQ9 DQ8
A11 A9 A8 A7 A6 A5 A4
VSS DQ15 VSSQ DQ14 DQ13 VDDQ DQ12 DQ11 VSSQ DQ10 DQ9 VDDQ DQ8 VSS NC UDQM CLK CKE NC A11 A9 A8 A7 A6 A5 A4 VSS
VDD(D3.3V) DQ0 VDDQ DQ1 DQ2 VSSQ DQ3 DQ4 VDDQ DQ5 DQ6 VSSQ DQ7 VDD(D3.3V) LDQM /WE /CAS /RAS /CS BA0 BA1 A10 A0 A1 A2 A3 VDD(D3.3V)
A10 A0 A1 A2 A3
DQ0 DQ1 DQ2 DQ3 DQ4 DQ5 DQ6 DQ7
R656DD0 R656DD1 R656DD2 R656DD3 R656DD4 R656DD5 R656DD6 R656DD7
IC9
C0JBAZ001776
(BUFFER)
VCC (D3.3V) OE2 O0 O1 O2 O3 O4 O5 O6 O7
/OE1 I0 I1 I2 I3 I4 I5 I6 I7 GND
R656DEC0 R656DEC1 R656DEC2 R656DEC3 R656DEC4 R656DEC5 R656DEC6 R656DEC7
R656DVSW DV
R656DD7 AI
R656DD6 AI
R656DD5 AI
R656DD4 AI
R656DD3 AI
R656DD3 AI
R656DD2 AI
R656DD1 AI
R656DD0 AI
R656DEC7 DV
R656DEC6 DV
R656DEC5 DV
R656DEC4 DV
R656DEC3 DV
R656DEC2 DV
R656DEC1 DV
R656DEC0 DV
CLK54A1 AI
MCLK27 AI
R58 22
FL16 F1H0J1050018
C15 6V22
FL28 F1H0J1050018
C14 0.1
LB3 J0JGC0000020
IC15
C0CBCBD00002
(REG.D+3.3V)
OUT GND NR
VIN GND ON H
IC14
C0JBAF000206
(PLL)
VCC (D3.3V) XRST2 D2 CK2 XPR2 Q2 XQ2
XRST1 D1 CK1 XPR1 Q1 XQ1 GND
R656MP0 MP
R656MP1 MP
R656MP2 MP
R656MP3 MP
R656MP4 MP
R656MP5 MP
R656MP6 MP
R656MP7 MP
D 5V DN
R60 0
R41 0
LB6 J0JGC0000020
C13 0.1
IC13
C0JBAD000107
(XD MUTE)
VCC (D3.3V) OUTY
INB INA GND
R86 0
C27 16V10
C28 0.1
IC11
C0CBCBD00002
(REG.DAC+3.3V)
OUT GND NR
VIN GND ON H
(J27) X1DA LP G
(J28) DEC SCK S
(J29) DEC SDTO S
(J31) XDMUTE DN
(J30) AMUTE G
(J26) MIXROUT DM DN
(J25) MIXLOUT DM DN
(J24) 1DALRCK G
(J23) 1DADATA G
(J22) 1DABCK G
(J17) COUT DM DN
(J18) YOUT DM DN
(J19) RPROUT DM DN
(J20) BPBOUT DM DN
(J21) GPYOUT DM DN
R47 0
R46 0
R45 0
LB4 J0JHC0000032
AU 5V DN
DAC 3.3V AI
FL21 F1H0J1050018
C18 6V100
C16 0.1
AUGND DN
ANA 3.3V DN
J30
J31
J-LINE

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MP:MPEG4 Section(Page: **N**)

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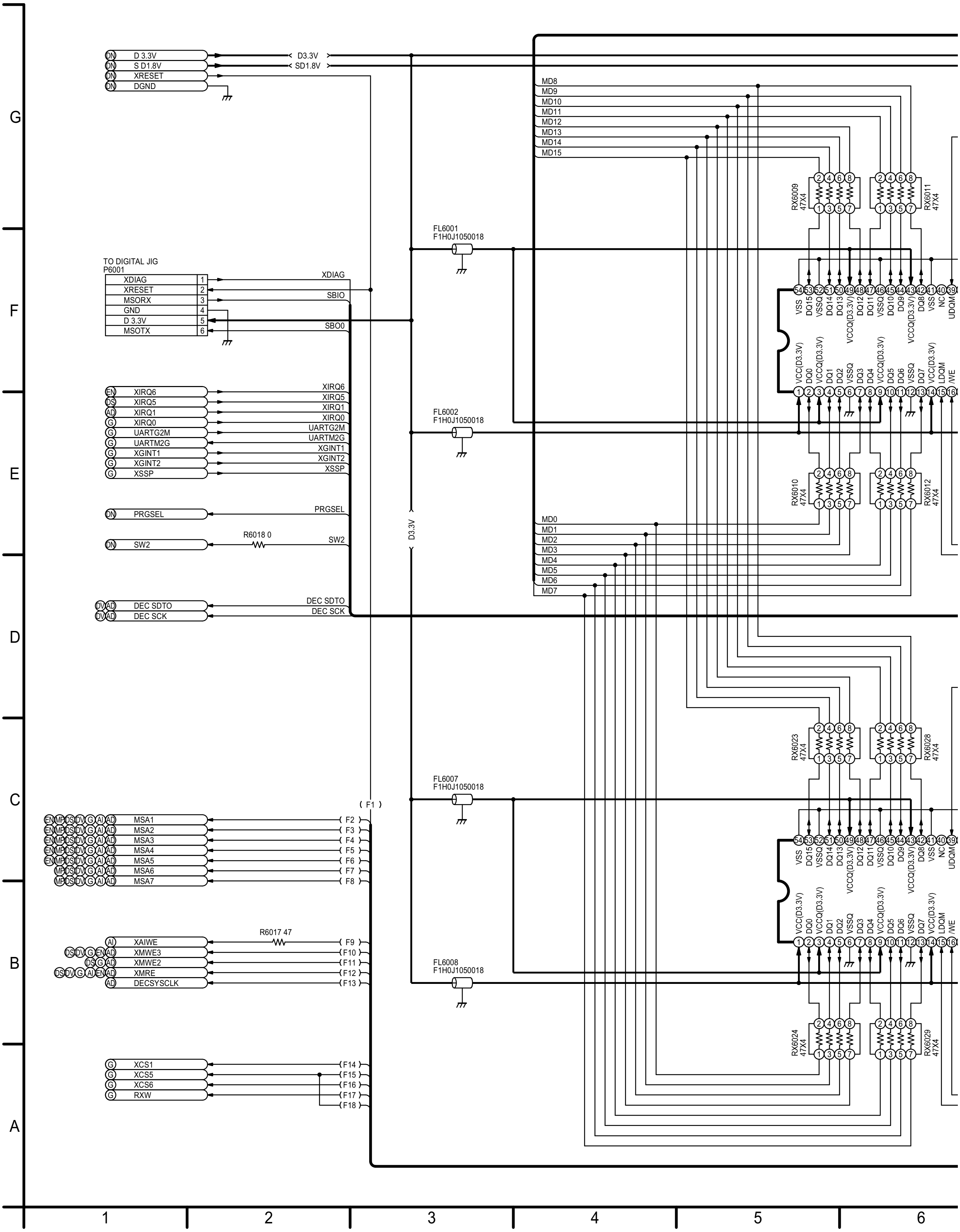
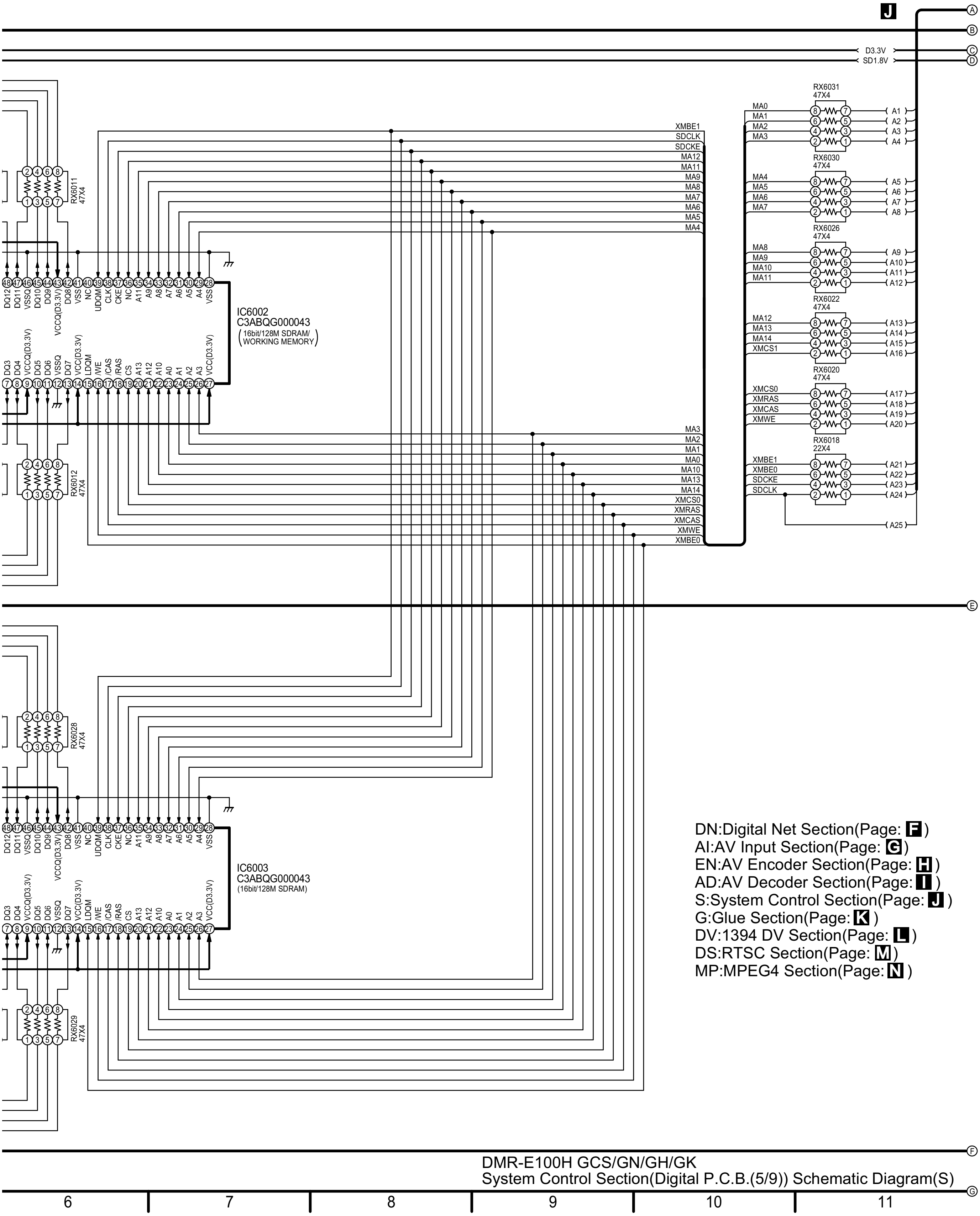
DMR-E100H GCS/GN/GH/GK
AV Decoder Section(Digital P.C.B.(4/9)) Schematic Diagram(AD)

18 19 20 21 22

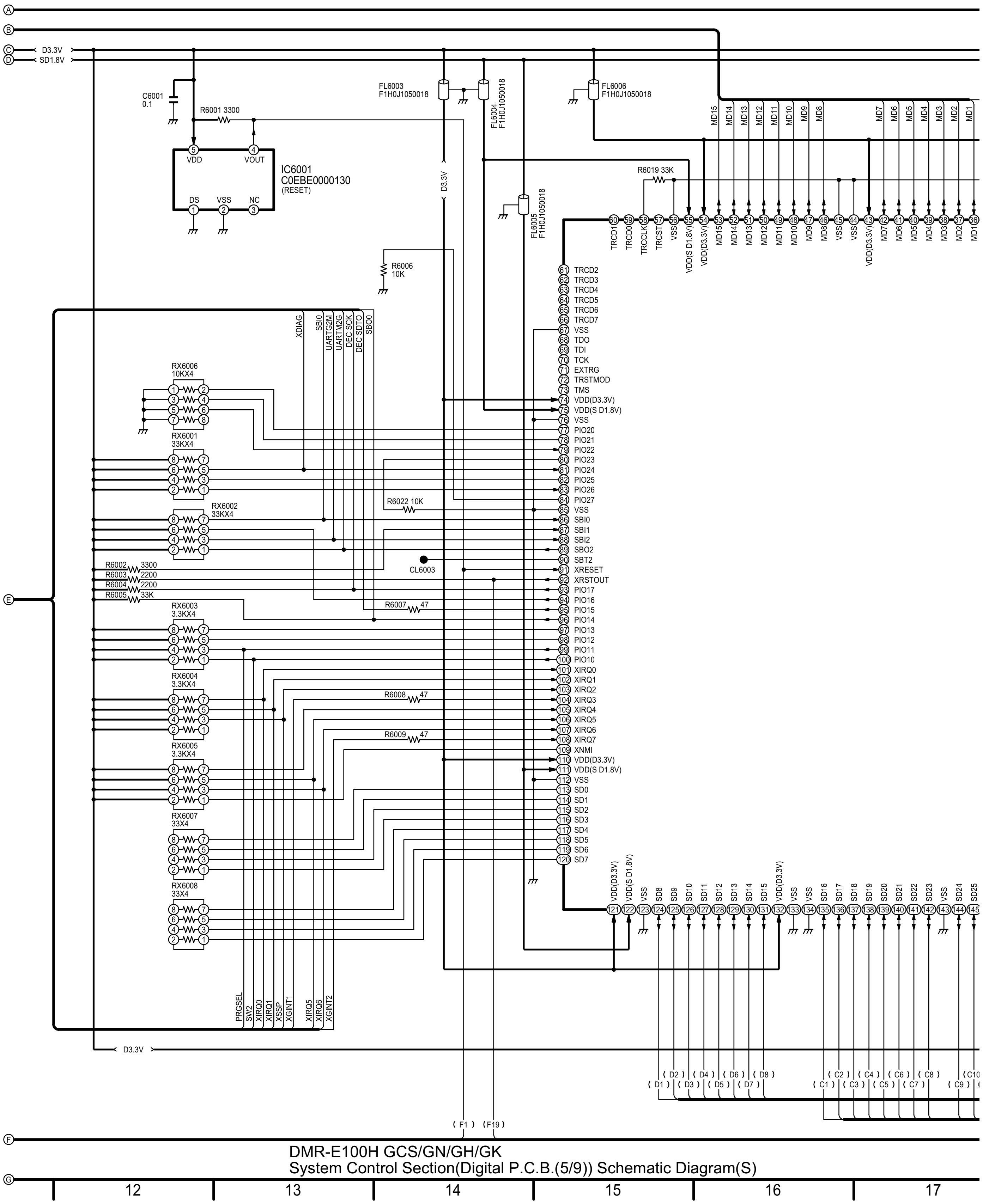
14.12. System Control Schematic Diagram (S) (Digital P.C.B. 5/9)


D 3.3V
S D1.8V
XRESET
DGND
D3.3V
SD1.8V
MD8
MD9
MD10
MD11
MD12
MD13
MD14
MD15
RX6009
47X4
RX6011
47X4
FL6001
F1H0J1050018
TO DIGITAL JIG
P6001
XDIAG
XRESET
MSORX
GND
D 3.3V
MSOTX
SBIO
SBO0
VSS
DQ15
VSSQ
DQ14
DQ13
VCCQ(D3.3V)
DQ12
DQ11
DQ10
DQ9
DQ8
NC
UDQM
VCC(D3.3V)
DQ0
DQ1
DQ2
DQ3
DQ4
DQ5
DQ6
DQ7
LDQM
/WE
XIRQ6
XIRQ5
XIRQ1
XIRQ0
UARTG2M
UARTM2G
XGINT1
XGINT2
XSSP
FL6002
F1H0J1050018
RX6010
47X4
RX6012
47X4
PRGSEL
R6018 0
SW2
D3.3V
MD0
MD1
MD2
MD3
MD4
MD5
MD6
MD7
DEC SDTO
DEC SCK
RX6023
47X4
RX6028
47X4
FL6007
F1H0J1050018
F1
MSA1
MSA2
MSA3
MSA4
MSA5
MSA6
MSA7
F2
F3
F4
F5
F6
F7
F8
R6017 47
XAIWE
XMWE3
XMWE2
XMRE
DECSYSCLK
F9
F10
F11
F12
F13
FL6008
F1H0J1050018
RX6024
47X4
RX6029
47X4
XCS1
XCS5
XCS6
RXW
F14
F15
F16
F17
F18
G
F
E
D
C
B
A
1
2
3
4
5
6

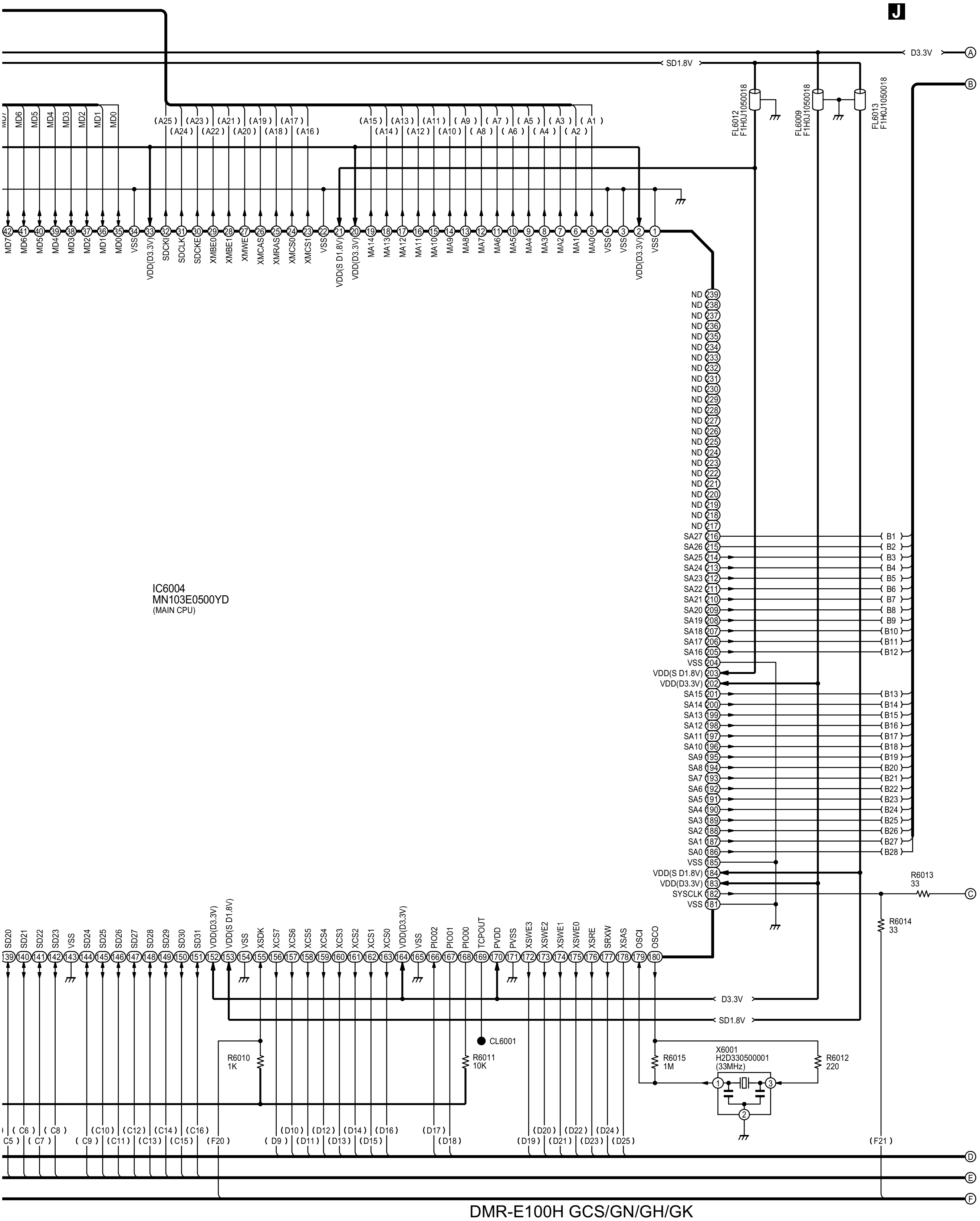

J
A
B
C
D
E
F
G
D3.3V
SD1.8V
RX6031 47X4
MA0
MA1
MA2
MA3
A1
A2
A3
A4
RX6030 47X4
MA4
MA5
MA6
MA7
A5
A6
A7
A8
RX6026 47X4
MA8
MA9
MA10
MA11
A9
A10
A11
A12
RX6022 47X4
MA12
MA13
MA14
XMCS1
A13
A14
A15
A16
RX6020 47X4
XMCS0
XMRAS
XMCAS
XMWE
A17
A18
A19
A20
RX6018 22X4
XMBE1
XMBE0
SDCKE
SDCLK
A21
A22
A23
A24
A25
XMBE1
SDCLK
SDCKE
MA12
MA11
MA9
MA8
MA7
MA6
MA5
MA4
MA3
MA2
MA1
MA0
MA10
MA13
MA14
XMCS0
XMRAS
XMCAS
XMWE
XMBE0
RX6011 47X4
RX6012 47X4
RX6028 47X4
RX6029 47X4
IC6002
C3ABQG000043
(16bit/128M SDRAM/ WORKING MEMORY)
IC6003
C3ABQG000043
(16bit/128M SDRAM)
DQ12
DQ11
VSSQ
DQ10
DQ9
VCCQ(D3.3V)
DQ8
VSS
NC
UDQM
CLK
CKE
NC
A11
A9
A8
A7
A6
A5
A4
VSS
DQ3
DQ4
VCCQ(D3.3V)
DQ5
DQ6
VSSQ
DQ7
VCC(D3.3V)
LDQM
/WE
/CAS
/RAS
CS
A13
A12
A10
A0
A1
A2
A3
VCC(D3.3V)
6
7
8
9
10
11

DN:Digital Net Section(Page: F)
AI:AV Input Section(Page: G)
EN:AV Encoder Section(Page: H)
AD:AV Decoder Section(Page: I)
S:System Control Section(Page: J)
G:Glue Section(Page: K)
DV:1394 DV Section(Page: L)
DS:RTSC Section(Page: M)
MP:MPEG4 Section(Page: N)

DMR-E100H GCS/GN/GH/GK
System Control Section(Digital P.C.B.(5/9)) Schematic Diagram(S)

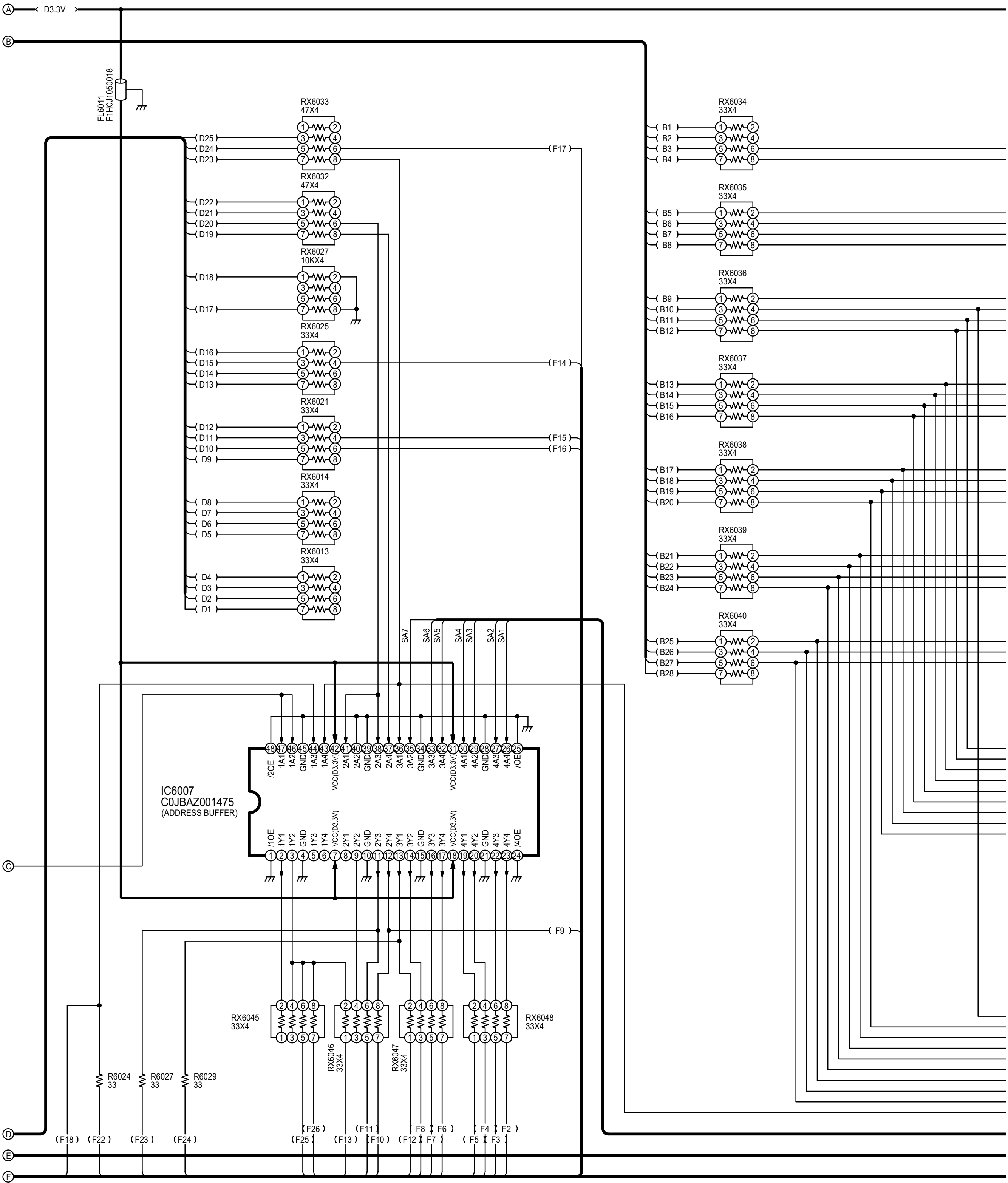

A
B
C
D
D3.3V
SD1.8V
C6001
0.1
R6001 3300
IC6001
C0EBE0000130
(RESET)
VDD
VOUT
DS
VSS
NC
FL6003
F1H0J1050018
FL6004
F1H0J1050018
FL6005
F1H0J1050018
FL6006
F1H0J1050018
R6019 33K
R6006
10K
MD15
MD14
MD13
MD12
MD11
MD10
MD9
MD8
MD7
MD6
MD5
MD4
MD3
MD2
MD1
TRCD1
TRCD0
TRCCLK
TRCST
VSS
VDD(S D1.8V)
VDD(D3.3V)
TRCD2
TRCD3
TRCD4
TRCD5
TRCD6
TRCD7
TDO
TDI
TCK
EXTRG
TRSTMOD
TMS
PIO20
PIO21
PIO22
PIO23
PIO24
PIO25
PIO26
PIO27
SBI0
SBI1
SBI2
SBO2
SBT2
XRESET
XRSTOUT
PIO17
PIO16
PIO15
PIO14
PIO13
PIO12
PIO11
PIO10
XIRQ0
XIRQ1
XIRQ2
XIRQ3
XIRQ4
XIRQ5
XIRQ6
XIRQ7
XNMI
SD0
SD1
SD2
SD3
SD4
SD5
SD6
SD7
SD8
SD9
SD10
SD11
SD12
SD13
SD14
SD15
SD16
SD17
SD18
SD19
SD20
SD21
SD22
SD23
SD24
SD25
XDIAG
SBI0
UARTG2M
UARTM2G
DEC SCK
DEC SDTO
SBO0
RX6006
10KX4
RX6001
33KX4
RX6002
33KX4
R6022 10K
R6002 3300
R6003 2200
R6004 2200
R6005 33K
CL6003
R6007 47
RX6003
3.3KX4
RX6004
3.3KX4
R6008 47
RX6005
3.3KX4
R6009 47
RX6007
33X4
RX6008
33X4
PRGSEL
SW2
XIRQ0
XIRQ1
XSSP
XGINT1
XIRQ5
XIRQ6
XGINT2
E
D1
D2
D3
D4
D5
D6
D7
D8
C1
C2
C3
C4
C5
C6
C7
C8
C9
C10
F1
F19
F
G
12
13
14
15
16
17

DMR-E100H GCS/GN/GH/GK
System Control Section(Digital P.C.B.(5/9)) Schematic Diagram(S)


J
D3.3V
SD1.8V
FL6012
F1H0J1050018
FL6009
F1H0J1050018
FL6013
F1H0J1050018
IC6004
MN103E0500YD
(MAIN CPU)
R6013
33
R6014
33
R6010
1K
R6011
10K
CL6001
R6015
1M
X6001
H2D330500001
(33MHz)
R6012
220
SA27
SA0
SYSCLK
OSCI
OSCO
TCPOUT
XSDK
A
B
C
D
E
F

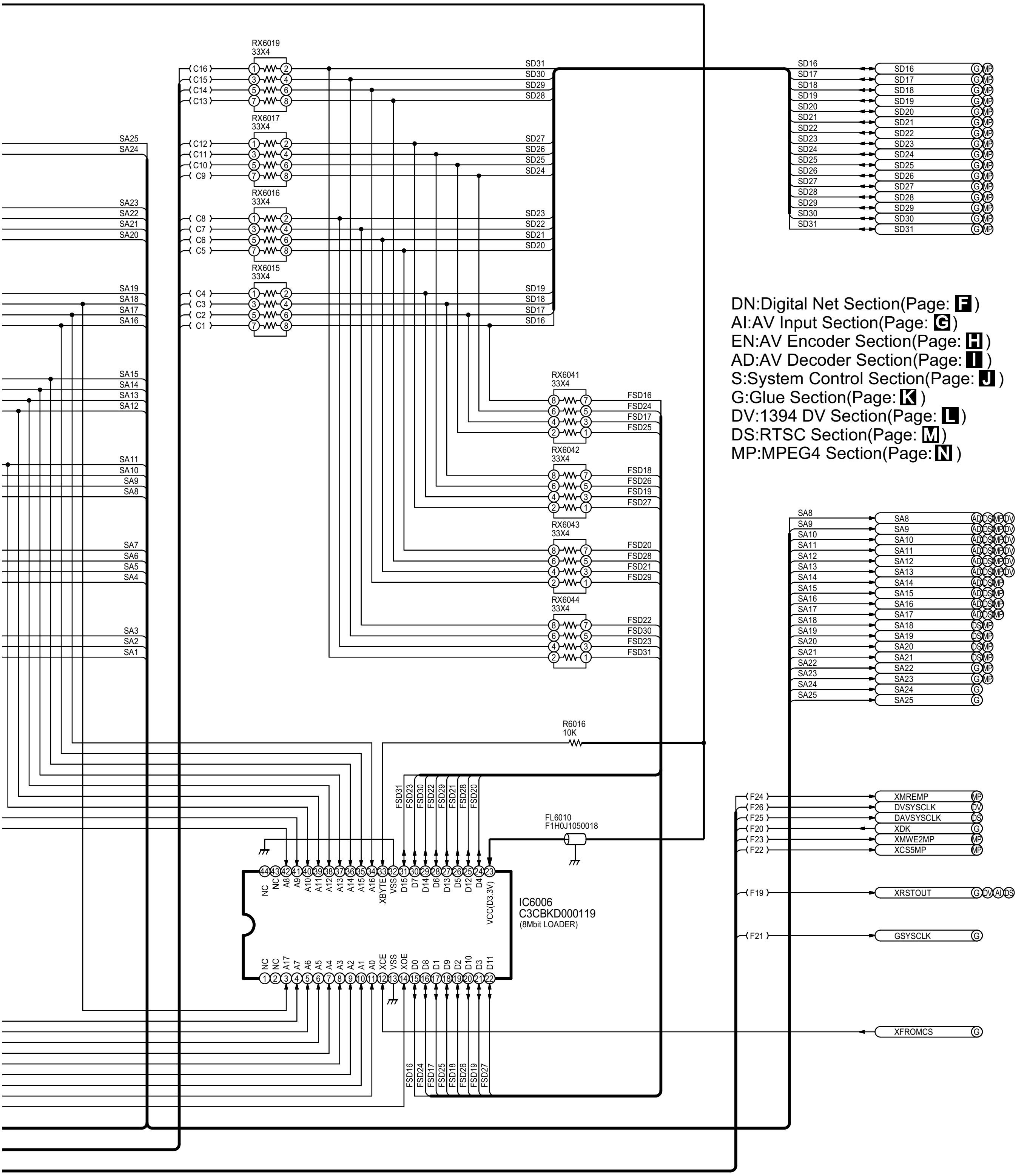
DMR-E100H GCS/GN/GH/GK
System Control Section(Digital P.C.B.(5/9)) Schematic Diagram(S)

G
17
18
19
20
21
22


A
B
C
D
E
F
G
D3.3V
FL6011
F1H0J1050018
RX6033
47X4
RX6032
47X4
RX6027
10KX4
RX6025
33X4
RX6021
33X4
RX6014
33X4
RX6013
33X4
RX6034
33X4
RX6035
33X4
RX6036
33X4
RX6037
33X4
RX6038
33X4
RX6039
33X4
RX6040
33X4
D25
D24
D23
D22
D21
D20
D19
D18
D17
D16
D15
D14
D13
D12
D11
D10
D9
D8
D7
D6
D5
D4
D3
D2
D1
B1
B2
B3
B4
B5
B6
B7
B8
B9
B10
B11
B12
B13
B14
B15
B16
B17
B18
B19
B20
B21
B22
B23
B24
B25
B26
B27
B28
F17
F14
F15
F16
F9
SA7
SA6
SA5
SA4
SA3
SA2
SA1
IC6007
C0JBAZ001475
(ADDRESS BUFFER)
/2OE
1A1
1A2
GND
1A3
1A4
VCC(D3.3V)
2A1
2A2
GND
2A3
2A4
3A1
3A2
GND
3A3
3A4
VCC(D3.3V)
4A1
4A2
GND
4A3
4A4
/OE
/1OE
1Y1
1Y2
GND
1Y3
1Y4
VCC(D3.3V)
2Y1
2Y2
GND
2Y3
2Y4
3Y1
3Y2
GND
3Y3
3Y4
VCC(D3.3V)
4Y1
4Y2
GND
4Y3
4Y4
/4OE
RX6045
33X4
RX6046
33X4
RX6047
33X4
RX6048
33X4
R6024
33
R6027
33
R6029
33
F18
F22
F23
F24
F25
F26
F13
F11
F10
F12
F8
F7
F6
F5
F4
F3
F2

DMR-E100H GCS/GN/GH/GK
System Control Section(Digital P.C.B.(5/9)) Schematic Diagram(S)

23 24 25 26 27 28


RX6019
33X4
C16
C15
C14
C13
SD31
SD30
SD29
SD28
RX6017
33X4
C12
C11
C10
C9
SD27
SD26
SD25
SD24
RX6016
33X4
C8
C7
C6
C5
SD23
SD22
SD21
SD20
RX6015
33X4
C4
C3
C2
C1
SD19
SD18
SD17
SD16
SA25
SA24
SA23
SA22
SA21
SA20
SA19
SA18
SA17
SA16
SA15
SA14
SA13
SA12
SA11
SA10
SA9
SA8
SA7
SA6
SA5
SA4
SA3
SA2
SA1
RX6041
33X4
FSD16
FSD24
FSD17
FSD25
RX6042
33X4
FSD18
FSD26
FSD19
FSD27
RX6043
33X4
FSD20
FSD28
FSD21
FSD29
RX6044
33X4
FSD22
FSD30
FSD23
FSD31
R6016
10K
FL6010
F1H0J1050018
IC6006
C3CBKD000119
(8Mbit LOADER)
NC
NC
A8
A9
A10
A11
A12
A13
A14
A15
A16
XBYTE
VSS
D15
D7
D14
D6
D13
D5
D12
D4
VCC(D3.3V)
NC
NC
A17
A7
A6
A5
A4
A3
A2
A1
A0
XCE
VSS
XOE
D0
D8
D1
D9
D2
D10
D3
D11
SD16 G MP
SD17 G MP
SD18 G MP
SD19 G MP
SD20 G MP
SD21 G MP
SD22 G MP
SD23 G MP
SD24 G MP
SD25 G MP
SD26 G MP
SD27 G MP
SD28 G MP
SD29 G MP
SD30 G MP
SD31 G MP
SA8 AD DS MP DV
SA9 AD DS MP DV
SA10 AD DS MP DV
SA11 AD DS MP DV
SA12 AD DS MP DV
SA13 AD DS MP DV
SA14 AD DS MP
SA15 AD DS MP
SA16 AD DS MP
SA17 AD DS MP
SA18 DS MP
SA19 DS MP
SA20 DS MP
SA21 DS MP
SA22 G MP
SA23 G MP
SA24 G
SA25 G
F24
F26
F25
F20
F23
F22
XMREMP MP
DVSYSCLK DV
DAVSYSCLK DS
XDK G
XMWE2MP MP
XCS5MP MP
F19
XRSTOUT G DV AI DS
F21
GSYSCLK G
XFROMCS G

DN:Digital Net Section(Page: **F**)
AI:AV Input Section(Page: **G**)
EN:AV Encoder Section(Page: **H**)
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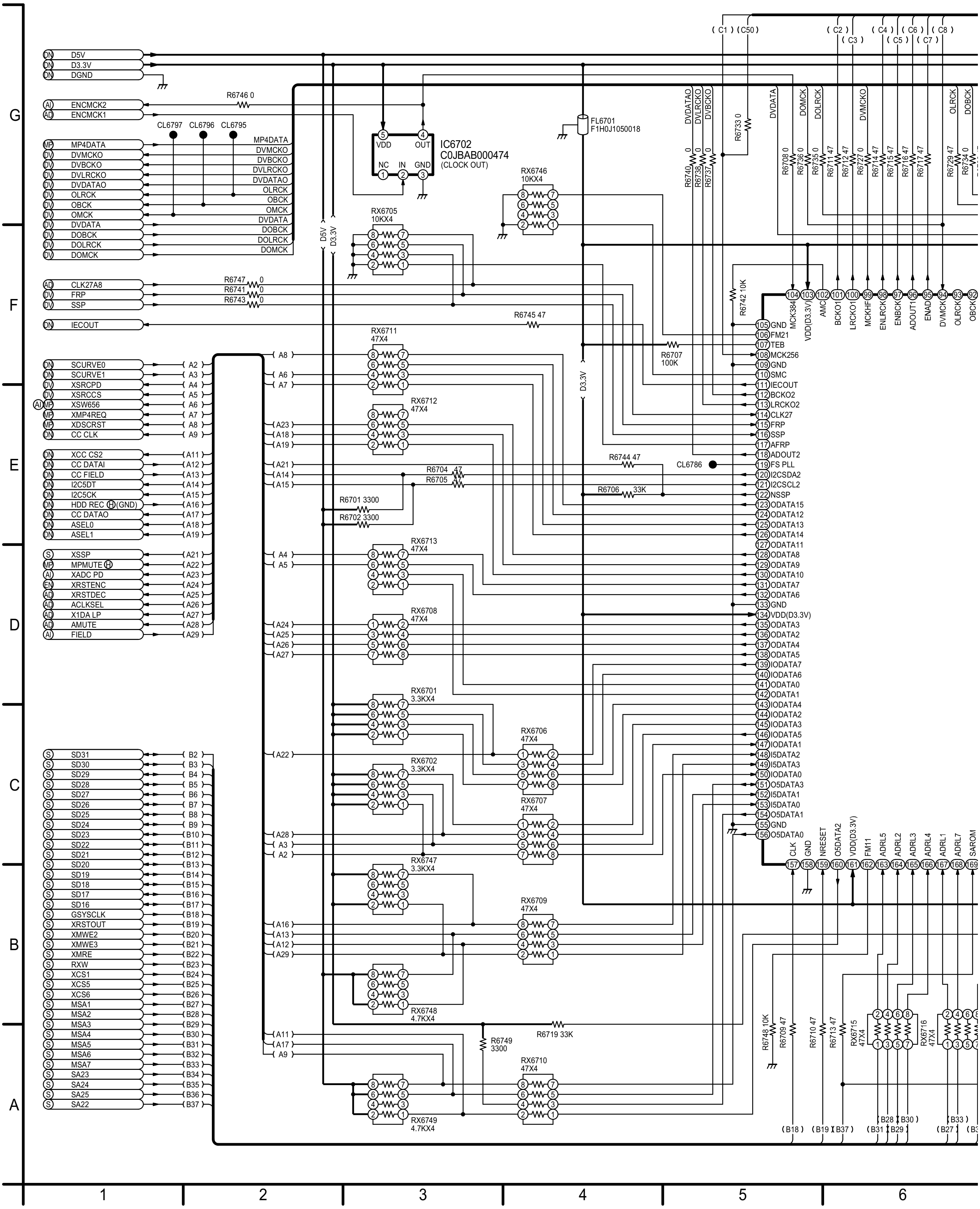
G:Glue Section(Page: **K**)
DV:1394 DV Section(Page: **L**)
DS:RTSC Section(Page: **M**)
MP:MPEG4 Section(Page: **N**)

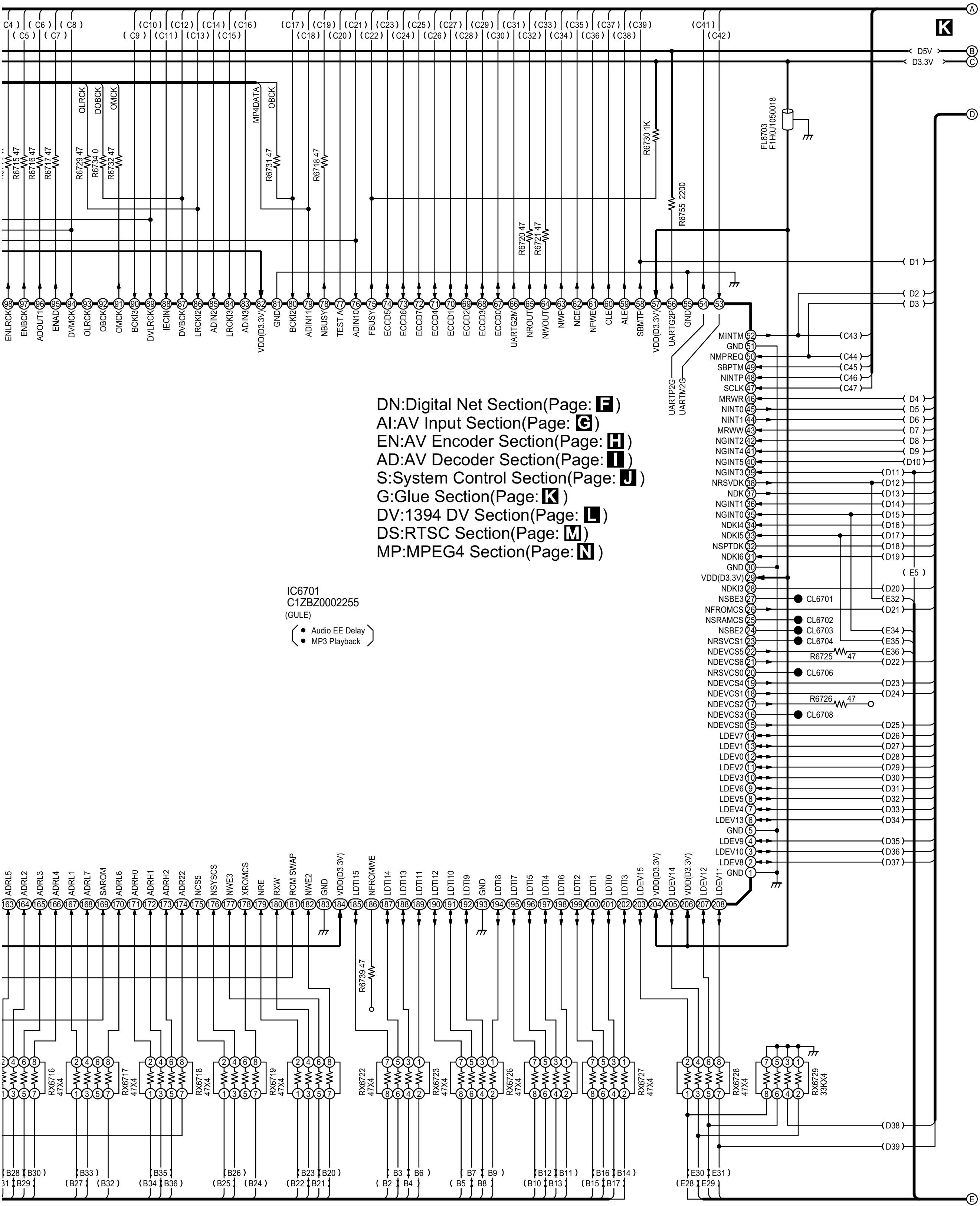
NOTE:
DO NOT USE ANY PART NUMBER SHOWN ON THIS SCHEMATIC DIAGRAM
FOR ORDERING.WHEN YOU ORDER A PART,PLEASE REFER TO PARTS LIST.

DMR-E100H GCS/GN/GH/GK
System Control Section(Digital P.C.B.(5/9)) Schematic Diagram(S)

14.13. Glue Schematic Diagram (G) (Digital P.C.B. 6/9)



D5V
D3.3V
DGND
ENCMCK2
ENCMCK1
R6746 0
CL6797
CL6796
CL6795
MP4DATA
DVMCKO
DVBCKO
DVLRCKO
DVDATAO
OLRCK
OBCK
OMCK
DVDATA
DOBCK
DOLRCK
DOMCK
IC6702
C0JBAB000474
(CLOCK OUT)
VDD
OUT
NC
IN
GND
FL6701
F1H0J1050018
RX6746
10KX4
RX6705
10KX4
CLK27A8
FRP
SSP
IECOUT
R6747 0
R6741 0
R6743 0
R6745 47
R6742 10K
R6733 0
R6740 0
R6738 0
R6737 0
R6708 0
R6736 0
R6735 0
R6711 47
R6712 47
R6727 0
R6714 47
R6715 47
R6716 47
R6717 47
R6729 47
R6734 0
SCURVE0
SCURVE1
XSRCPD
XSRCCS
XSW656
XMP4REQ
XDSCRST
CC CLK
XCC CS2
CC DATAI
CC FIELD
I2C5DT
I2C5CK
HDD REC (GND)
CC DATAO
ASEL0
ASEL1
XSSP
MPMUTE
XADC PD
XRSTENC
XRSTDEC
ACLKSEL
X1DA LP
AMUTE
FIELD
RX6711
47X4
RX6712
47X4
RX6713
47X4
RX6708
47X4
RX6701
3.3KX4
RX6702
3.3KX4
RX6747
3.3KX4
RX6748
4.7KX4
RX6749
4.7KX4
RX6706
47X4
RX6707
47X4
RX6709
47X4
RX6710
47X4
R6701 3300
R6702 3300
R6704 47
R6705 47
R6706 33K
R6707
100K
R6744 47
CL6786
R6749
3300
R6719 33K
R6748 10K
R6709 47
R6710 47
R6713 47
RX6715
47X4
RX6716
47X4
SD31
SD30
SD29
SD28
SD27
SD26
SD25
SD24
SD23
SD22
SD21
SD20
SD19
SD18
SD17
SD16
GSYSCLK
XRSTOUT
XMWE2
XMWE3
XMRE
RXW
XCS1
XCS5
XCS6
MSA1
MSA2
MSA3
MSA4
MSA5
MSA6
MSA7
SA23
SA24
SA25
SA22
MCK384
VDD(D3.3V)
AMC
BCKO1
LRCKO1
MCKHF
ENLRCK
ENBCK
ADOUT1
ENAD
DVMCK
OLRCK
OBCK
105 GND
106 FM21
107 TEB
108 MCK256
109 GND
110 SMC
111 IECOUT
112 BCKO2
113 LRCKO2
114 CLK27
115 FRP
116 SSP
117 AFRP
118 ADOUT2
119 FS PLL
120 I2CSDA2
121 I2CSCL2
122 NSSP
123 ODATA15
124 ODATA12
125 ODATA13
126 ODATA14
127 ODATA11
128 ODATA8
129 ODATA9
130 ODATA10
131 ODATA7
132 ODATA6
133 GND
134 VDD(D3.3V)
135 ODATA3
136 ODATA2
137 ODATA4
138 ODATA5
139 IODATA7
140 IODATA6
141 ODATA0
142 ODATA1
143 IODATA4
144 IODATA2
145 IODATA3
146 IODATA5
147 IODATA1
148 I5DATA2
149 I5DATA3
150 IODATA0
151 O5DATA3
152 I5DATA1
153 I5DATA0
154 O5DATA1
155 GND
156 O5DATA0
CLK
GND
NRESET
O5DATA2
VDD(D3.3V)
FM11
ADRL5
ADRL2
ADRL3
ADRL4
ADRL1
ADRL7
SAROM
G
F
E
D
C
B
A
1
2
3
4
5
6


K
IC6701
C1ZBZ0002255
(GULE)
● Audio EE Delay
● MP3 Playback
D5V
D3.3V
FL6703
F1H0J1050018
CL6701
CL6702
CL6703
CL6704
CL6706
CL6708
RX6716 47X4
RX6717 47X4
RX6718 47X4
RX6719 47X4
RX6722 47X4
RX6723 47X4
RX6726 47X4
RX6727 47X4
RX6728 47X4
RX6729 33KX4

DN:Digital Net Section(Page: **F**)
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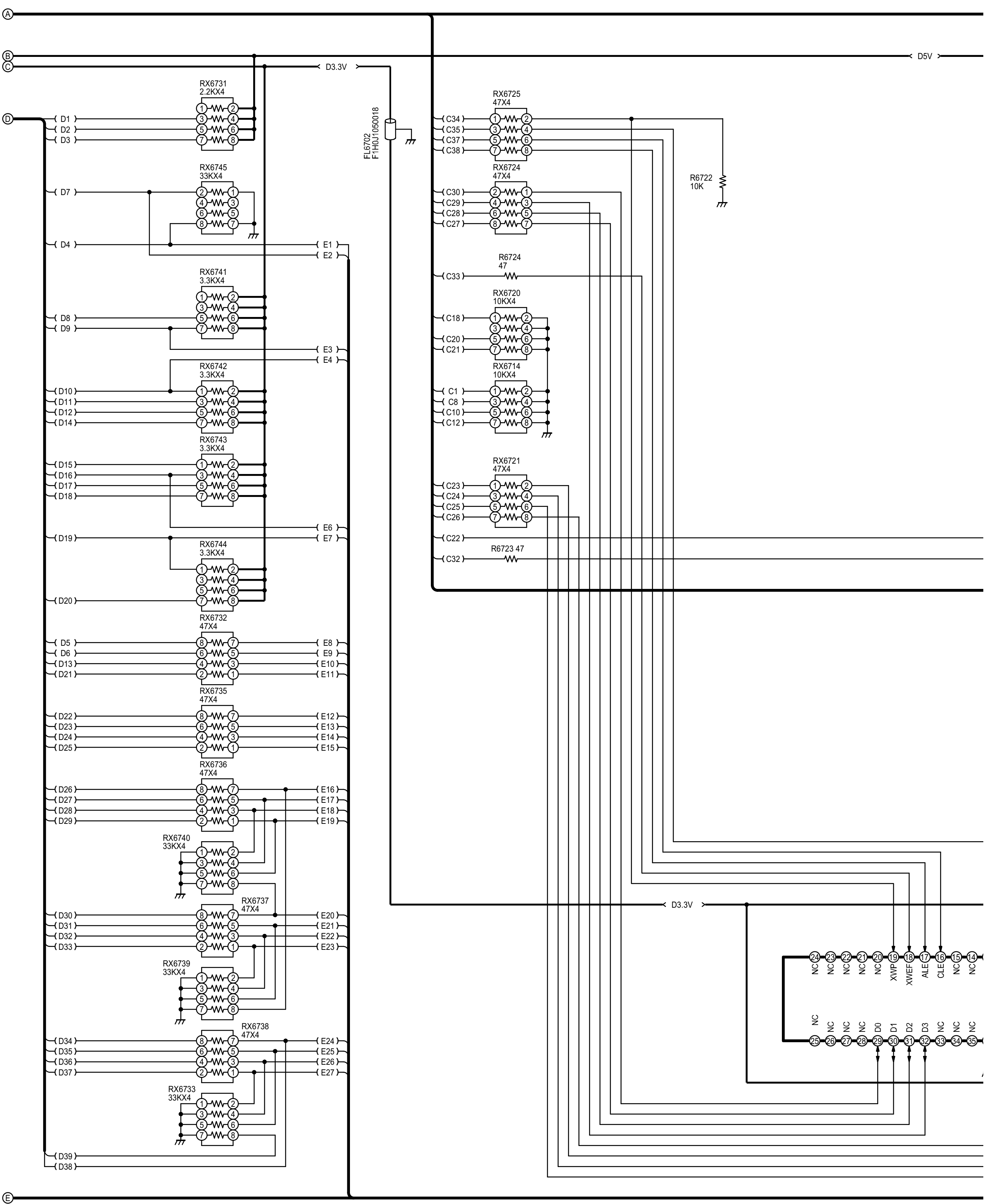
DV:1394 DV Section(Page: **L**)
DS:RTSC Section(Page: **M**)
MP:MPEG4 Section(Page: **N**)

DMR-E100H GCS/GN/GH/GK
Glue Section(Digital P.C.B.(6/9)) Schematic Diagram(G)

6	7	8	9	10	11



A
B
C
D
E
F
D3.3V
D5V
RX6731
2.2KX4
RX6745
33KX4
RX6741
3.3KX4
RX6742
3.3KX4
RX6743
3.3KX4
RX6744
3.3KX4
RX6732
47X4
RX6735
47X4
RX6736
47X4
RX6740
33KX4
RX6737
47X4
RX6739
33KX4
RX6738
47X4
RX6733
33KX4
FL6702
F1H0J1050018
RX6725
47X4
RX6724
47X4
R6722
10K
R6724
47
RX6720
10KX4
RX6714
10KX4
RX6721
47X4
R6723 47
D1
D2
D3
D7
D4
D8
D9
D10
D11
D12
D14
D15
D16
D17
D18
D19
D20
D5
D6
D13
D21
D22
D23
D24
D25
D26
D27
D28
D29
D30
D31
D32
D33
D34
D35
D36
D37
D39
D38
E1
E2
E3
E4
E6
E7
E8
E9
E10
E11
E12
E13
E14
E15
E16
E17
E18
E19
E20
E21
E22
E23
E24
E25
E26
E27
C34
C35
C37
C38
C30
C29
C28
C27
C33
C18
C20
C21
C1
C8
C10
C12
C23
C24
C25
C26
C22
C32
NC
NC
NC
NC
NC
XWP
XWEF
ALE
CLE
NC
NC
NC
NC
NC
NC
D0
D1
D2
D3
NC
NC
NC
24
23
22
21
20
19
18
17
16
15
14
25
26
27
28
29
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32
33
34
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16
17

DMR-E100H GCS/GN/GH/GK
Glue Section(Digital P.C.B.(6/9)) Schematic Diagram(G)

DN:Digital Net Section(Page: **F**)
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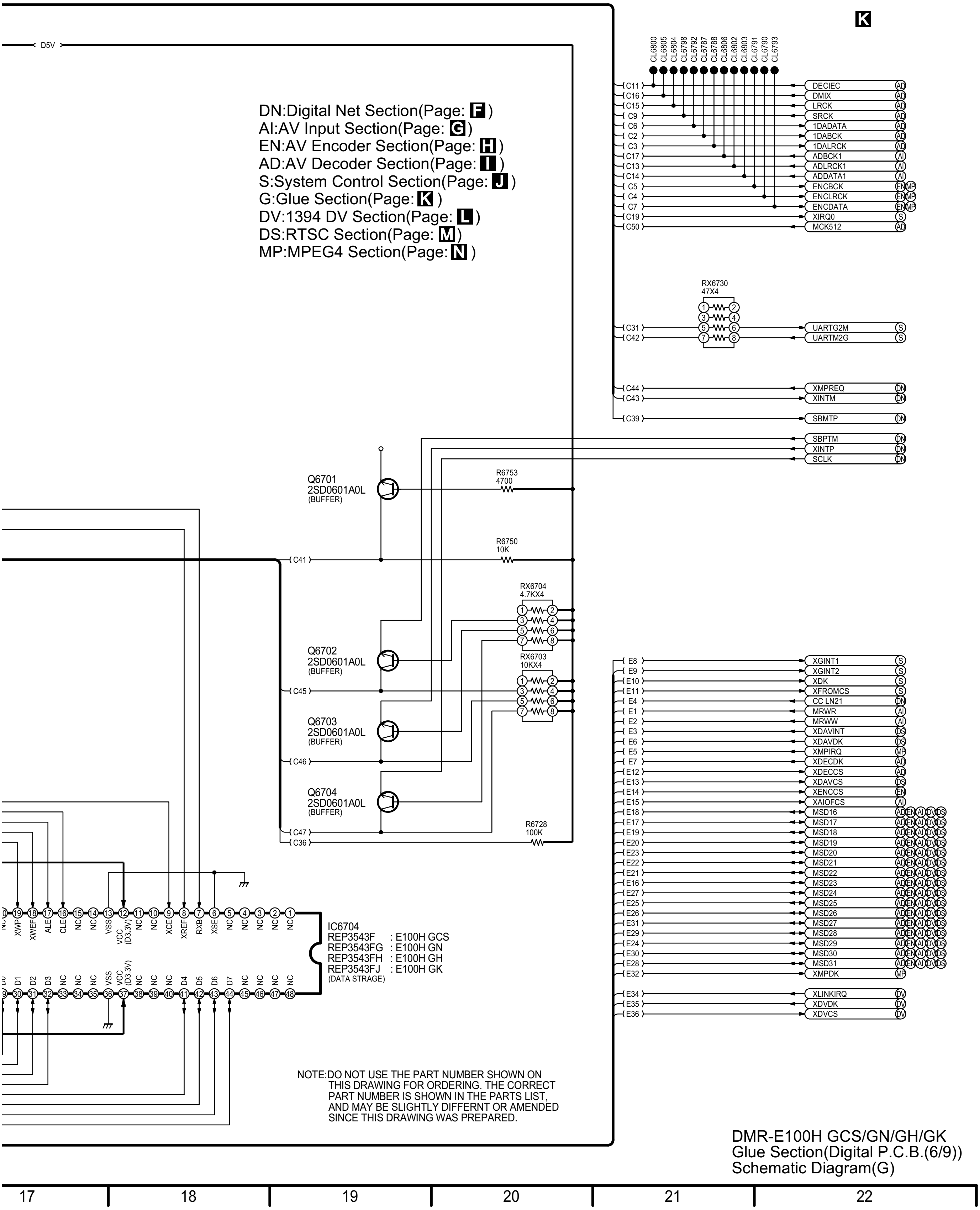
MP:MPEG4 Section(Page: **N**)

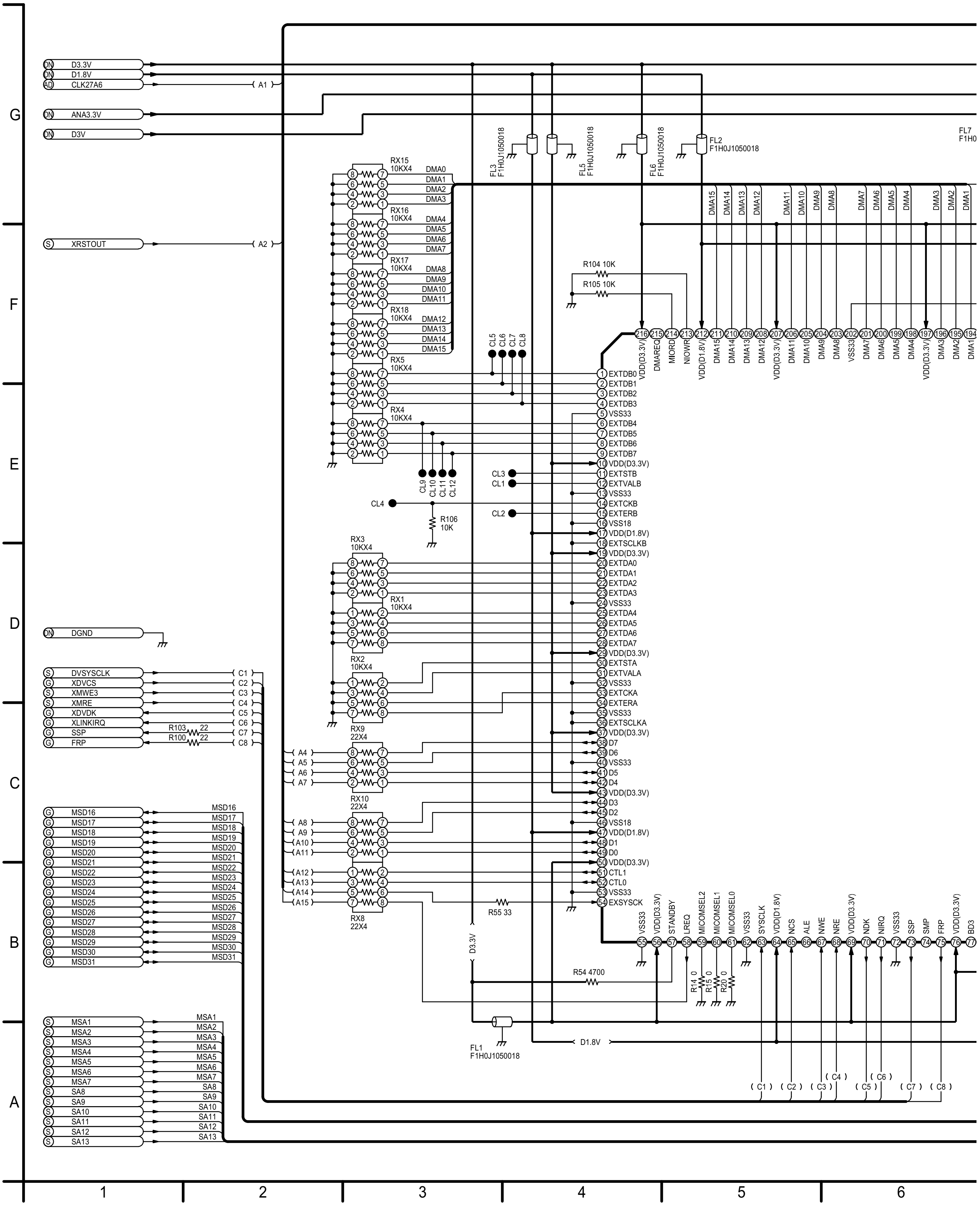


K
D5V
CL6800
CL6805
CL6804
CL6798
CL6792
CL6787
CL6788
CL6806
CL6802
CL6803
CL6791
CL6790
CL6793
C11 DECIEC AD
C16 DMIX AD
C15 LRCK AD
C9 SRCK AD
C6 1DADATA AD
C2 1DABCK AD
C3 1DALRCK AD
C17 ADBCK1 AI
C13 ADLRCK1 AI
C14 ADDATA1 AI
C5 ENCBCK EN MP
C4 ENCLRCK EN MP
C7 ENCDATA EN MP
C19 XIRQ0 S
C50 MCK512 AD
RX6730
47X4
C31 UARTG2M S
C42 UARTM2G S
C44 XMPREQ DN
C43 XINTM DN
C39 SBMTP DN
SBPTM DN
XINTP DN
SCLK DN
Q6701
2SD0601A0L
(BUFFER)
R6753
4700
R6750
10K
C41
RX6704
4.7KX4
RX6703
10KX4
Q6702
2SD0601A0L
(BUFFER)
C45
Q6703
2SD0601A0L
(BUFFER)
C46
Q6704
2SD0601A0L
(BUFFER)
C47
C36
R6728
100K
E8 XGINT1 S
E9 XGINT2 S
E10 XDK S
E11 XFROMCS S
E4 CC LN21 DN
E1 MRWR AI
E2 MRWW AI
E3 XDAVINT DS
E6 XDAVDK DS
E5 XMPIRQ MP
E7 XDECDK AD
E12 XDECCS AD
E13 XDAVCS DS
E14 XENCCS EN
E15 XAIOFCS AI
E18 MSD16
E17 MSD17
E19 MSD18
E20 MSD19
E23 MSD20
E22 MSD21
E21 MSD22
E16 MSD23
E27 MSD24
E25 MSD25
E26 MSD26
E31 MSD27
E29 MSD28
E24 MSD29
E30 MSD30
E28 MSD31
AD EN AI DV DS
E32 XMPDK MP
E34 XLINKIRQ DV
E35 XDVDK DV
E36 XDVCS DV
XWP XWEF ALE CLE NC NC VSS VCC (D3.3V) NC NC XCE XREF RXB XSE NC NC NC NC NC
D1 D2 D3 NC NC NC VSS VCC (D3.3V) NC NC NC D4 D5 D6 D7 NC NC NC NC
IC6704
REP3543F : E100H GCS
REP3543FG : E100H GN
REP3543FH : E100H GH
REP3543FJ : E100H GK
(DATA STRAGE)
17
18
19
20
21
22

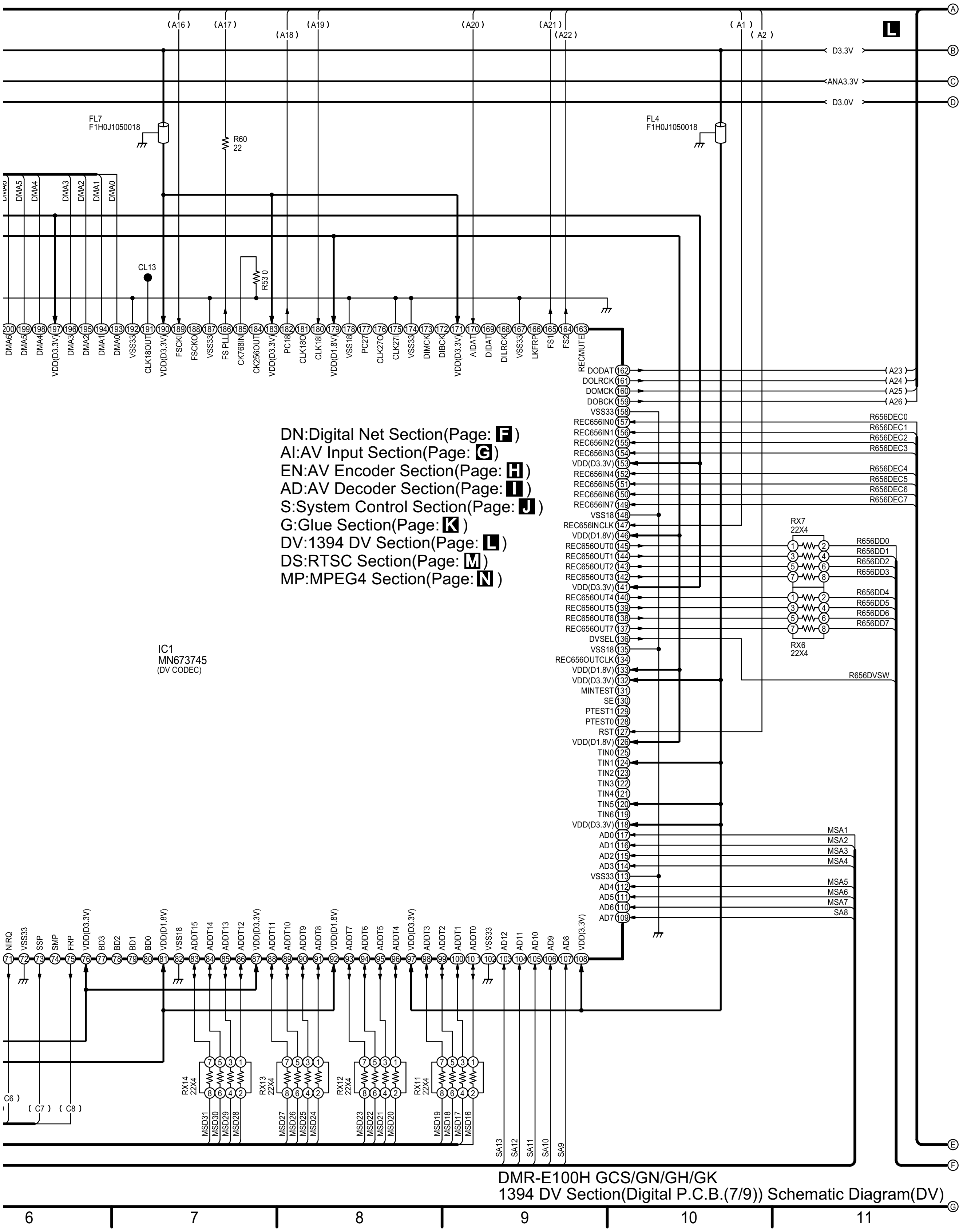
NOTE:DO NOT USE THE PART NUMBER SHOWN ON
THIS DRAWING FOR ORDERING. THE CORRECT
PART NUMBER IS SHOWN IN THE PARTS LIST,
AND MAY BE SLIGHTLY DIFFERNT OR AMENDED
SINCE THIS DRAWING WAS PREPARED.

DMR-E100H GCS/GN/GH/GK
Glue Section(Digital P.C.B.(6/9))
Schematic Diagram(G)

14.14. 1394 DV Schematic Diagram (DV) (Digital P.C.B. 7/9)

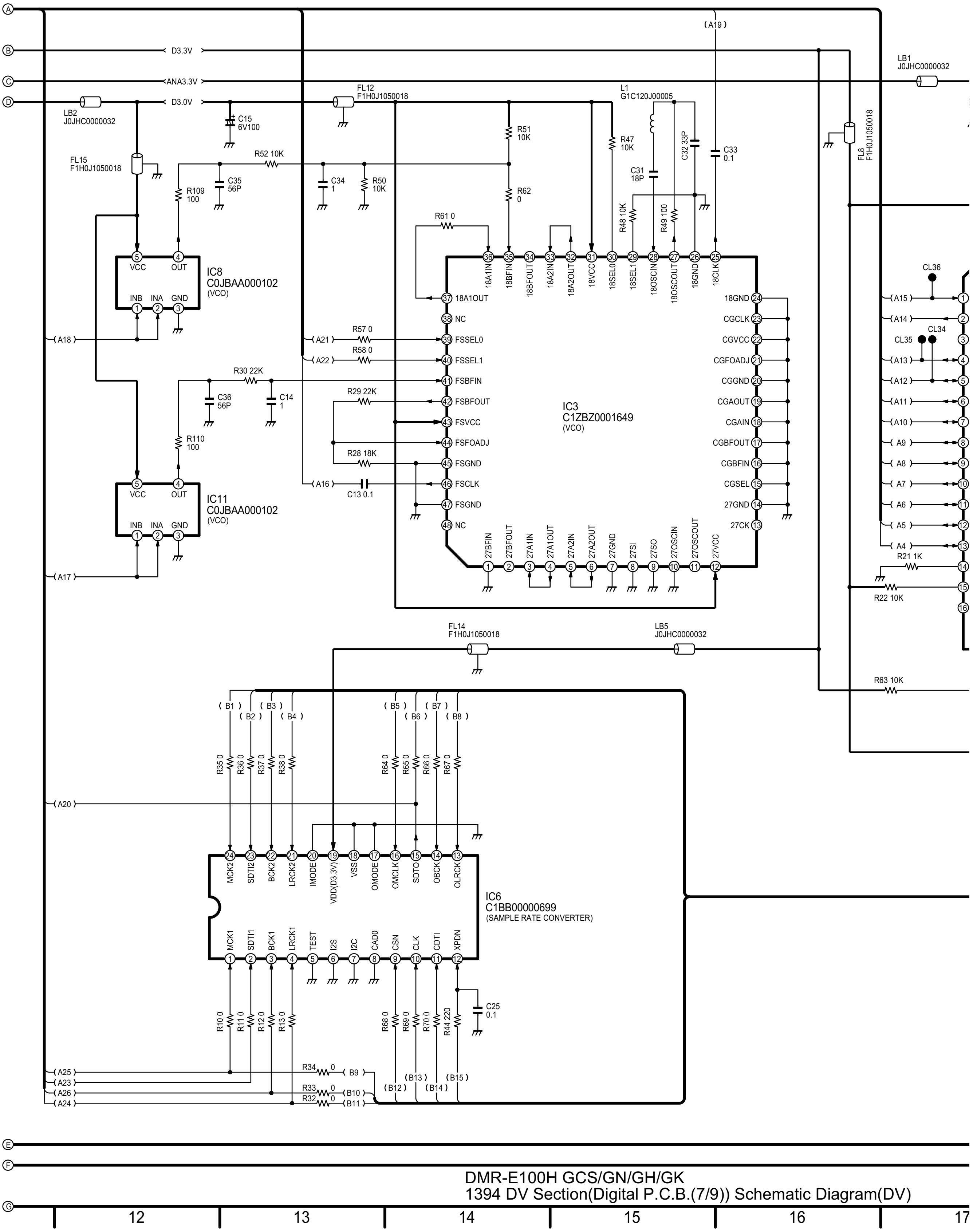


G
F
E
D
C
B
A
1
2
3
4
5
6
D3.3V
D1.8V
CLK27A6
ANA3.3V
D3V
A1
XRSTOUT
A2
DGND
DVSYSCLK
XDVCS
XMWE3
XMRE
XDVDK
XLINKIRQ
SSP
FRP
R103 22
R100 22
C1
C2
C3
C4
C5
C6
C7
C8
MSD16
MSD17
MSD18
MSD19
MSD20
MSD21
MSD22
MSD23
MSD24
MSD25
MSD26
MSD27
MSD28
MSD29
MSD30
MSD31
MSA1
MSA2
MSA3
MSA4
MSA5
MSA6
MSA7
SA8
SA9
SA10
SA11
SA12
SA13
RX15 10KX4
RX16 10KX4
RX17 10KX4
RX18 10KX4
RX5 10KX4
RX4 10KX4
RX3 10KX4
RX1 10KX4
RX2 10KX4
RX9 22X4
RX10 22X4
RX8 22X4
DMA0
DMA1
DMA2
DMA3
DMA4
DMA5
DMA6
DMA7
DMA8
DMA9
DMA10
DMA11
DMA12
DMA13
DMA14
DMA15
A4
A5
A6
A7
A8
A9
A10
A11
A12
A13
A14
A15
FL3 F1H0J1050018
FL5 F1H0J1050018
FL6 F1H0J1050018
FL2 F1H0J1050018
FL7 F1H0
FL1 F1H0J1050018
CL5
CL6
CL7
CL8
CL9
CL10
CL11
CL12
CL3
CL1
CL4
CL2
R106 10K
R104 10K
R105 10K
R55 33
R54 4700
R14 0
R15 0
R20 0
D3.3V
D1.8V
1 EXTDB0
2 EXTDB1
3 EXTDB2
4 EXTDB3
5 VSS33
6 EXTDB4
7 EXTDB5
8 EXTDB6
9 EXTDB7
10 VDD(D3.3V)
11 EXTSTB
12 EXTVALB
13 VSS33
14 EXTCKB
15 EXTERB
16 VSS18
17 VDD(D1.8V)
18 EXTSCLKB
19 VDD(D3.3V)
20 EXTDA0
21 EXTDA1
22 EXTDA2
23 EXTDA3
24 VSS33
25 EXTDA4
26 EXTDA5
27 EXTDA6
28 EXTDA7
29 VDD(D3.3V)
30 EXTSTA
31 EXTVALA
32 VSS33
33 EXTCKA
34 EXTERA
35 VSS33
36 EXTSCLKA
37 VDD(D3.3V)
38 D7
39 D6
40 VSS33
41 D5
42 D4
43 VDD(D3.3V)
44 D3
45 D2
46 VSS18
47 VDD(D1.8V)
48 D1
49 D0
50 VDD(D3.3V)
51 CTL1
52 CTL0
53 VSS33
54 EXSYSCK
55 VSS33
56 VDD(D3.3V)
57 STANDBY
58 LREQ
59 MICOMSEL2
60 MICOMSEL1
61 MICOMSEL0
62 VSS33
63 SYSCLK
64 VDD(D1.8V)
65 NCS
66 ALE
67 NWE
68 NRE
69 VDD(D3.3V)
70 NDK
71 NIRQ
72 VSS33
73 SSP
74 SMP
75 FRP
76 VDD(D3.3V)
77 BD3
216 VDD(D3.3V)
215 DMAREQ
214 MIORD
213 NIOWR
212 VDD(D1.8V)
211 DMA15
210 DMA14
209 DMA13
208 DMA12
207 VDD(D3.3V)
206 DMA11
205 DMA10
204 DMA9
203 DMA8
202 VSS33
201 DMA7
200 DMA6
199 DMA5
198 DMA4
197 VDD(D3.3V)
196 DMA3
195 DMA2
194 DMA1

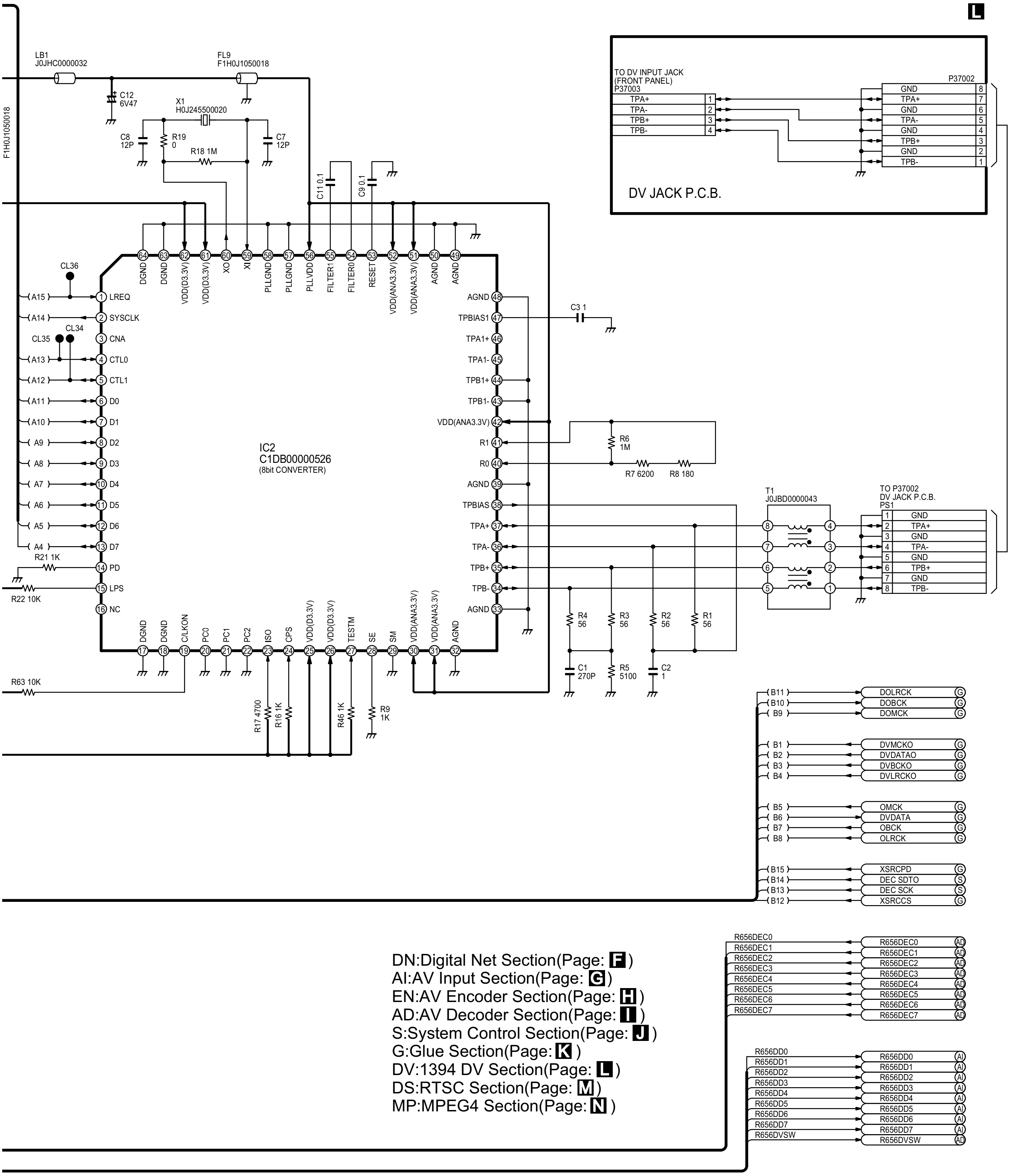

L
A
B
C
D
E
F
G
A16
A17
A18
A19
A20
A21
A22
A1
A2
D3.3V
ANA3.3V
D3.0V
FL7
F1H0J1050018
R60
22
FL4
F1H0J1050018
CL13
R53 0
DMA6
DMA5
DMA4
DMA3
DMA2
DMA1
DMA0
VDD(D3.3V)
VSS33
CLK18OUT
FSCKI
FSCKO
FS PLL
CK768IN
CK256OUT
PC18
CLK18O
CLK18I
VDD(D1.8V)
VSS18
PC27
CLK27O
CLK27I
DIMCK
DIBCK
AIDAT
DIDAT
DILRCK
LKFRP
FS1
FS2
RECMUTE
DODAT
DOLRCK
DOMCK
DOBCK
REC656IN0
REC656IN1
REC656IN2
REC656IN3
REC656IN4
REC656IN5
REC656IN6
REC656IN7
REC656INCLK
REC656OUT0
REC656OUT1
REC656OUT2
REC656OUT3
REC656OUT4
REC656OUT5
REC656OUT6
REC656OUT7
DVSEL
REC656OUTCLK
MINTEST
SE
PTEST1
PTEST0
RST
TIN0
TIN1
TIN2
TIN3
TIN4
TIN5
TIN6
AD0
AD1
AD2
AD3
AD4
AD5
AD6
AD7
A23
A24
A25
A26
R656DEC0
R656DEC1
R656DEC2
R656DEC3
R656DEC4
R656DEC5
R656DEC6
R656DEC7
RX7
22X4
R656DD0
R656DD1
R656DD2
R656DD3
R656DD4
R656DD5
R656DD6
R656DD7
RX6
22X4
R656DVSW
MSA1
MSA2
MSA3
MSA4
MSA5
MSA6
MSA7
SA8
IC1
MN673745
(DV CODEC)
NIRQ
SSP
SMP
FRP
BD3
BD2
BD1
BD0
ADDT15
ADDT14
ADDT13
ADDT12
ADDT11
ADDT10
ADDT9
ADDT8
ADDT7
ADDT6
ADDT5
ADDT4
ADDT3
ADDT2
ADDT1
ADDT0
AD12
AD11
AD10
AD9
AD8
RX14
22X4
RX13
22X4
RX12
22X4
RX11
22X4
MSD31
MSD30
MSD29
MSD28
MSD27
MSD26
MSD25
MSD24
MSD23
MSD22
MSD21
MSD20
MSD19
MSD18
MSD17
MSD16
SA13
SA12
SA11
SA10
SA9
C6
C7
C8

DN:Digital Net Section(Page: F)
AI:AV Input Section(Page: G)
EN:AV Encoder Section(Page: H)
AD:AV Decoder Section(Page: I)
S:System Control Section(Page: J)
G:Glue Section(Page: K)
DV:1394 DV Section(Page: L)
DS:RTSC Section(Page: M)
MP:MPEG4 Section(Page: N)

DMR-E100H GCS/GN/GH/GK
1394 DV Section(Digital P.C.B.(7/9)) Schematic Diagram(DV)


A
B
C
D
E
F
G
D3.3V
ANA3.3V
D3.0V
(A19)
LB1
J0JHC0000032
LB2
J0JHC0000032
FL12
F1H0J1050018
FL15
F1H0J1050018
FL8
F1H0J1050018
C15
6V100
L1
G1C120J00005
R51
10K
R47
10K
C32 33P
C33
0.1
C31
18P
R52 10K
C35
56P
C34
1
R50
10K
R109
100
R62
0
R48 10K
R49 100
R61 0
IC8
C0JBAA000102
(VCO)
VCC
OUT
INB
INA
GND
(A18)
(A21)
(A22)
R57 0
R58 0
R30 22K
C36
56P
C14
1
R29 22K
R28 18K
R110
100
(A16)
C13 0.1
IC11
C0JBAA000102
(VCO)
(A17)
IC3
C1ZBZ0001649
(VCO)
18A1IN
18BFIN
18BFOUT
18A2IN
18A2OUT
18VCC
18SEL0
18SEL1
18OSCIN
18OSCOUT
18GND
18CLK
18A1OUT
NC
FSSEL0
FSSEL1
FSBFIN
FSBFOUT
FSVCC
FSFOADJ
FSGND
FSCLK
FSGND
NC
18GND
CGCLK
CGVCC
CGFOADJ
CGGND
CGAOUT
CGAIN
CGBFOUT
CGBFIN
CGSEL
27GND
27CK
27BFIN
27BFOUT
27A1IN
27A1OUT
27A2IN
27A2OUT
27GND
27SI
27SO
27OSCIN
27OSCOUT
27VCC
CL36
CL35
CL34
(A15)
(A14)
(A13)
(A12)
(A11)
(A10)
(A9)
(A8)
(A7)
(A6)
(A5)
(A4)
R21 1K
R22 10K
FL14
F1H0J1050018
LB5
J0JHC0000032
R63 10K
(B1)
(B2)
(B3)
(B4)
(B5)
(B6)
(B7)
(B8)
R35 0
R36 0
R37 0
R38 0
R64 0
R65 0
R66 0
R67 0
(A20)
MCK2
SDTI2
BCK2
LRCK2
IMODE
VDD(D3.3V)
VSS
OMODE
OMCLK
SDTO
OBCK
OLRCK
IC6
C1BB00000699
(SAMPLE RATE CONVERTER)
MCK1
SDTI1
BCK1
LRCK1
TEST
I2S
I2C
CAD0
CSN
CLK
CDTI
XPDN
C25
0.1
R10 0
R11 0
R12 0
R13 0
R68 0
R69 0
R70 0
R44 220
(A25)
(A23)
(A26)
(A24)
R34 0
R33 0
R32 0
(B9)
(B10)
(B11)
(B12)
(B13)
(B14)
(B15)
12
13
14
15
16
17

DMR-E100H GCS/GN/GH/GK
1394 DV Section(Digital P.C.B.(7/9)) Schematic Diagram(DV)


L
LB1
J0JHC0000032
FL9
F1H0J1050018
F1H0J1050018
C12
6V47
X1
H0J245500020
C8
12P
R19
0
R18 1M
C7
12P
C11 0.1
C9 0.1
TO DV INPUT JACK
(FRONT PANEL)
P37003
TPA+
TPA-
TPB+
TPB-
P37002
GND
TPA+
GND
TPA-
GND
TPB+
GND
TPB-
DV JACK P.C.B.
CL36
CL35
CL34
DGND
DGND
VDD(D3.3V)
VDD(D3.3V)
XO
XI
PLLGND
PLLGND
PLLVDD
FILTER1
FILTER0
RESET
VDD(ANA3.3V)
VDD(ANA3.3V)
AGND
AGND
A15
A14
A13
A12
A11
A10
A9
A8
A7
A6
A5
A4
LREQ
SYSCLK
CNA
CTL0
CTL1
D0
D1
D2
D3
D4
D5
D6
D7
PD
LPS
NC
R21 1K
R22 10K
R63 10K
IC2
C1DB00000526
(8bit CONVERTER)
AGND
TPBIAS1
TPA1+
TPA1-
TPB1+
TPB1-
VDD(ANA3.3V)
R1
R0
AGND
TPBIAS
TPA+
TPA-
TPB+
TPB-
AGND
C3 1
R6
1M
R7 6200
R8 180
DGND
DGND
C/LKON
PC0
PC1
PC2
ISO
CPS
VDD(D3.3V)
VDD(D3.3V)
TESTM
SE
SM
VDD(ANA3.3V)
VDD(ANA3.3V)
AGND
R17 4700
R16 1K
R46 1K
R9
1K
T1
J0JBD0000043
TO P37002
DV JACK P.C.B.
PS1
GND
TPA+
GND
TPA-
GND
TPB+
GND
TPB-
R4
56
R3
56
R2
56
R1
56
C1
270P
R5
5100
C2
1
B11
B10
B9
DOLRCK
DOBCK
DOMCK
B1
B2
B3
B4
DVMCKO
DVDATAO
DVBCKO
DVLRCKO
B5
B6
B7
B8
OMCK
DVDATA
OBCK
OLRCK
B15
B14
B13
B12
XSRCPD
DEC SDTO
DEC SCK
XSRCCS
R656DEC0
R656DEC1
R656DEC2
R656DEC3
R656DEC4
R656DEC5
R656DEC6
R656DEC7
R656DD0
R656DD1
R656DD2
R656DD3
R656DD4
R656DD5
R656DD6
R656DD7
R656DVSW
G
S
AD
AI

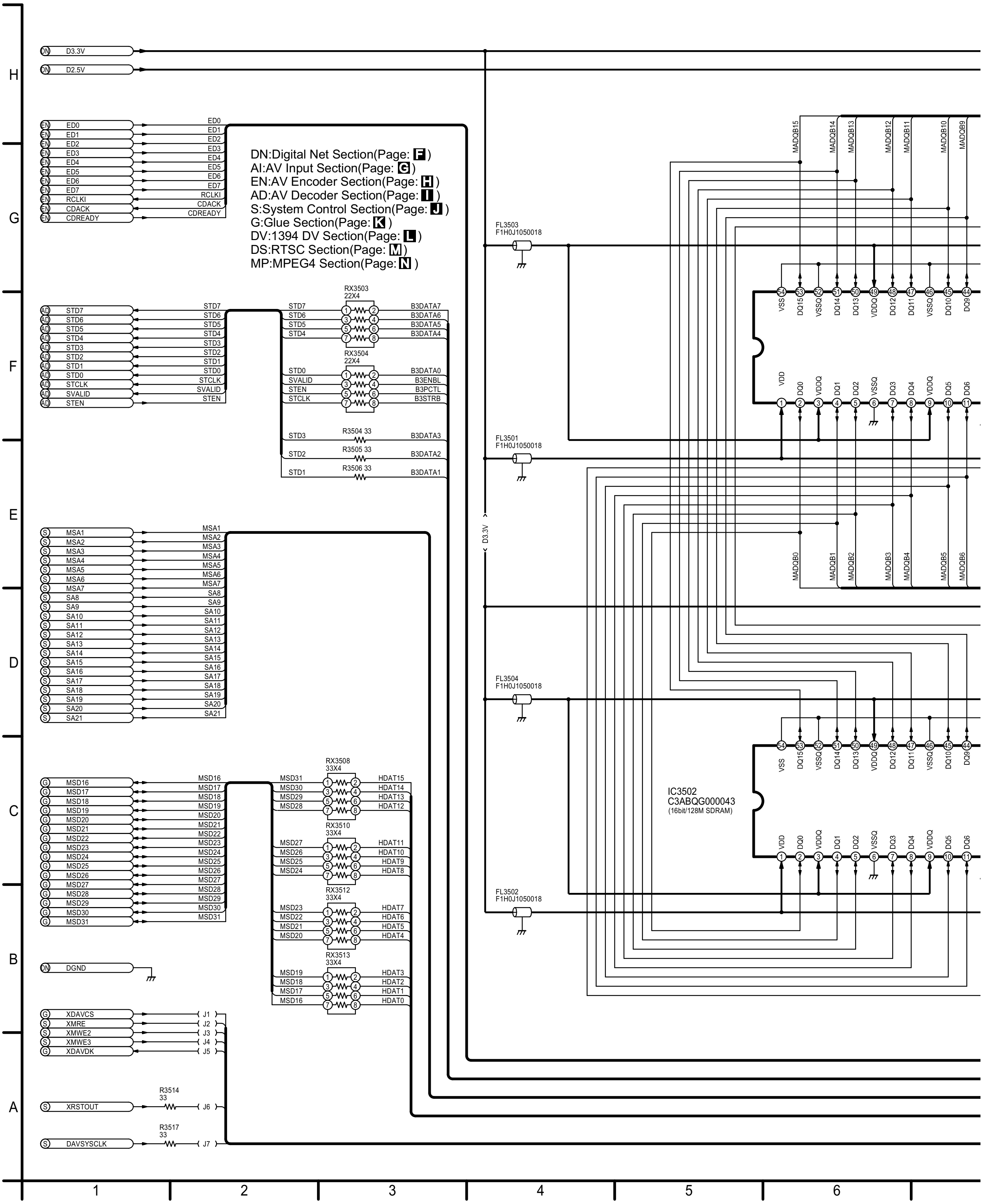
DN:Digital Net Section(Page: F)
AI:AV Input Section(Page: G)
EN:AV Encoder Section(Page: H)
AD:AV Decoder Section(Page: I)
S:System Control Section(Page: J)
G:Glue Section(Page: K)
DV:1394 DV Section(Page: L)
DS:RTSC Section(Page: M)
MP:MPEG4 Section(Page: N)

m(DV)

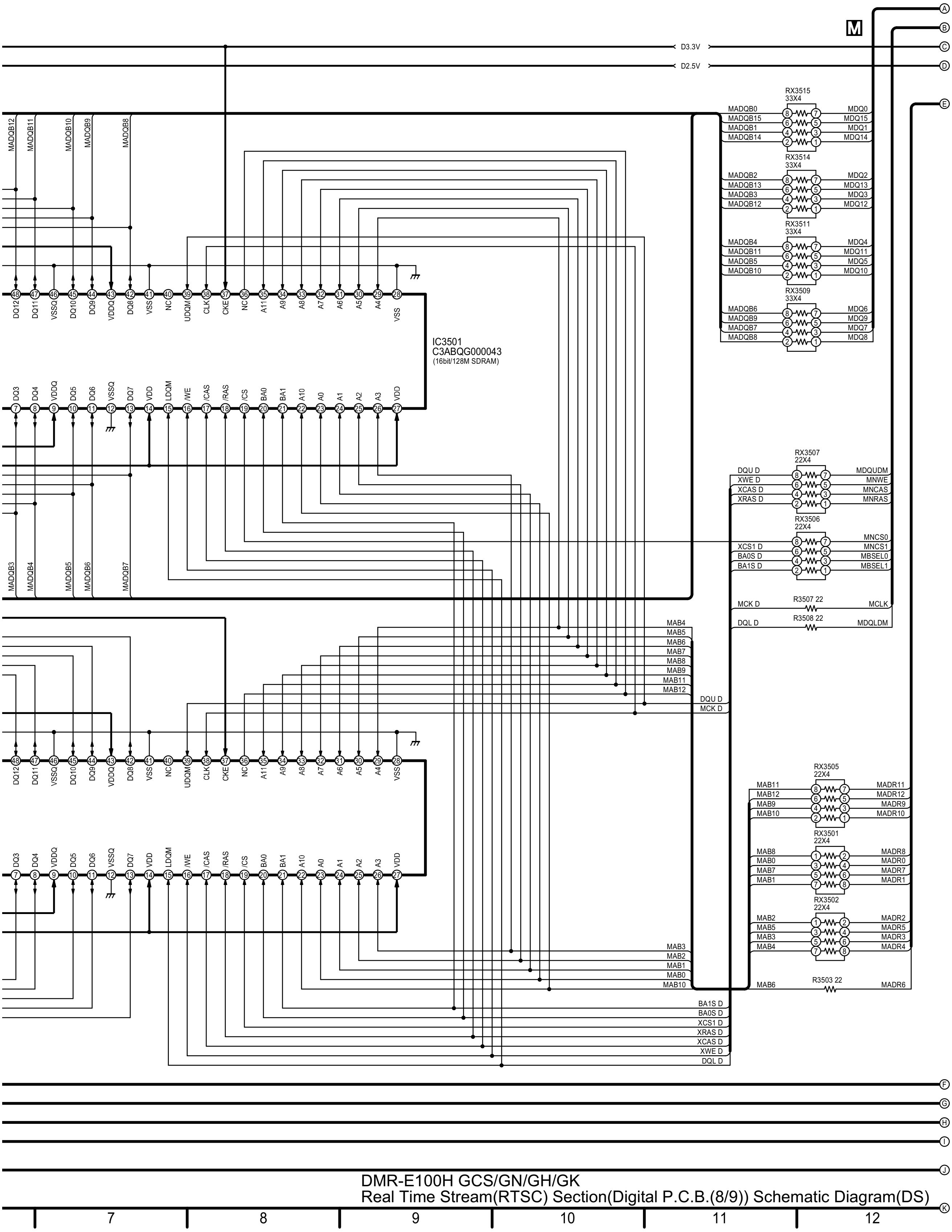
DMR-E100H GCS/GN/GH/GK
1394 DV Section(Digital P.C.B.(7/9)) Schematic Diagram(DV)

17	18	19	20	21	22

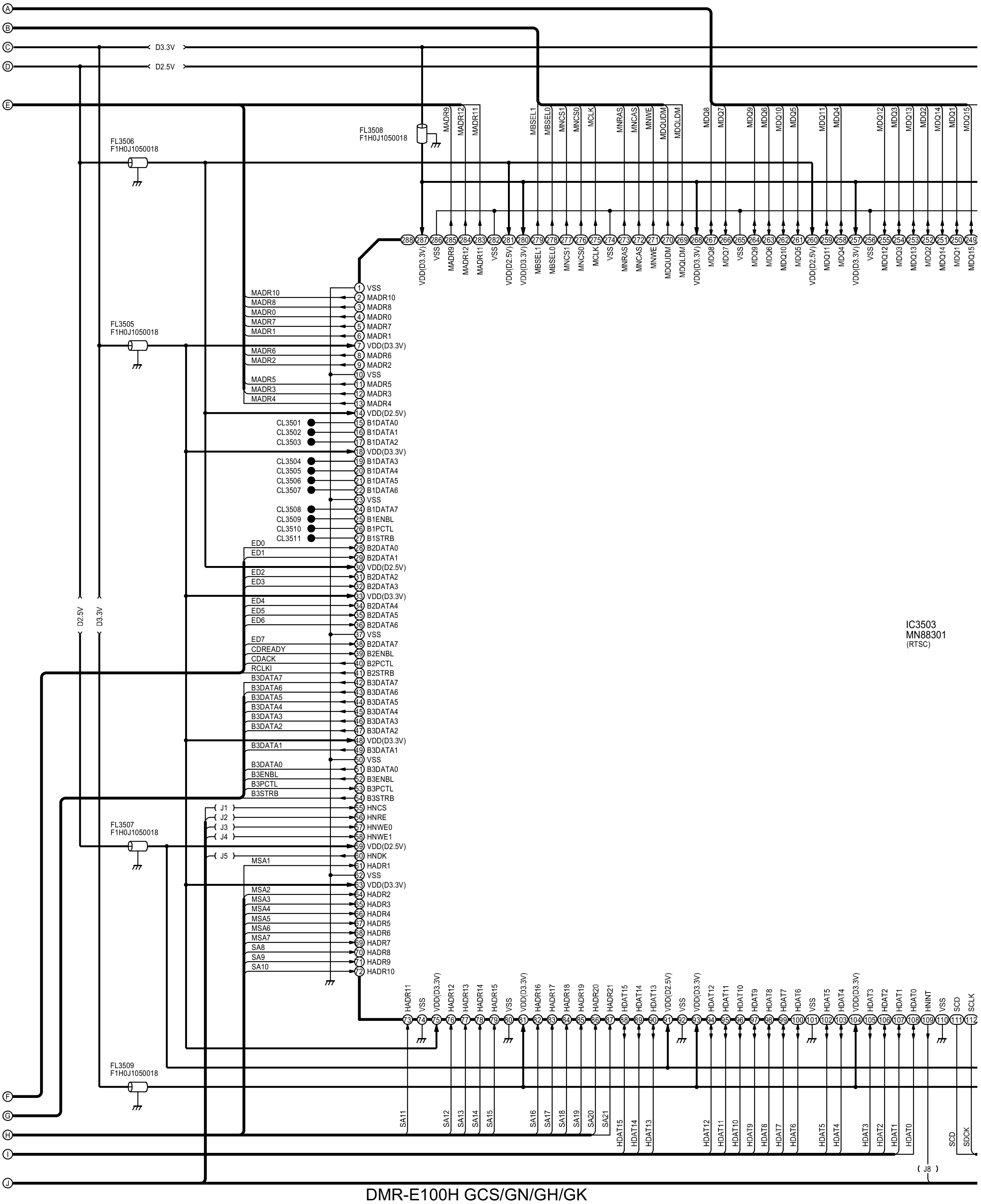
14.15. Real Time Stream (RTSC) Schematic Diagram (DS) (Digital P.C.B. 8/9)



DN:Digital Net Section(Page: F)
AI:AV Input Section(Page: G)
EN:AV Encoder Section(Page: H)
AD:AV Decoder Section(Page: I)
S:System Control Section(Page: J)
G:Glue Section(Page: K)
DV:1394 DV Section(Page: L)
DS:RTSC Section(Page: M)
MP:MPEG4 Section(Page: N)
D3.3V
D2.5V
ED0
ED1
ED2
ED3
ED4
ED5
ED6
ED7
RCLKI
CDACK
CDREADY
STD7
STD6
STD5
STD4
STD3
STD2
STD1
STD0
STCLK
SVALID
STEN
RX3503
22X4
RX3504
22X4
B3DATA7
B3DATA6
B3DATA5
B3DATA4
B3DATA0
B3ENBL
B3PCTL
B3STRB
R3504 33
R3505 33
R3506 33
B3DATA3
B3DATA2
B3DATA1
MSA1
MSA2
MSA3
MSA4
MSA5
MSA6
MSA7
SA8
SA9
SA10
SA11
SA12
SA13
SA14
SA15
SA16
SA17
SA18
SA19
SA20
SA21
MSD16
MSD17
MSD18
MSD19
MSD20
MSD21
MSD22
MSD23
MSD24
MSD25
MSD26
MSD27
MSD28
MSD29
MSD30
MSD31
RX3508
33X4
RX3510
33X4
RX3512
33X4
RX3513
33X4
HDAT15
HDAT14
HDAT13
HDAT12
HDAT11
HDAT10
HDAT9
HDAT8
HDAT7
HDAT6
HDAT5
HDAT4
HDAT3
HDAT2
HDAT1
HDAT0
DGND
XDAVCS
XMRE
XMWE2
XMWE3
XDAVDK
J1
J2
J3
J4
J5
R3514
33
XRSTOUT
J6
R3517
33
DAVSYSCLK
J7
FL3503
F1H0J1050018
FL3501
F1H0J1050018
FL3504
F1H0J1050018
FL3502
F1H0J1050018
D3.3V
MADQB15
MADQB14
MADQB13
MADQB12
MADQB11
MADQB10
MADQB9
MADQB0
MADQB1
MADQB2
MADQB3
MADQB4
MADQB5
MADQB6
VSS
DQ15
VSSQ
DQ14
DQ13
VDDQ
DQ12
DQ11
VSSQ
DQ10
DQ9
VDD
DQ0
VDDQ
DQ1
DQ2
VSSQ
DQ3
DQ4
VDDQ
DQ5
DQ6
IC3502
C3ABQG000043
(16bit/128M SDRAM)
H
G
F
E
D
C
B
A
1
2
3
4
5
6

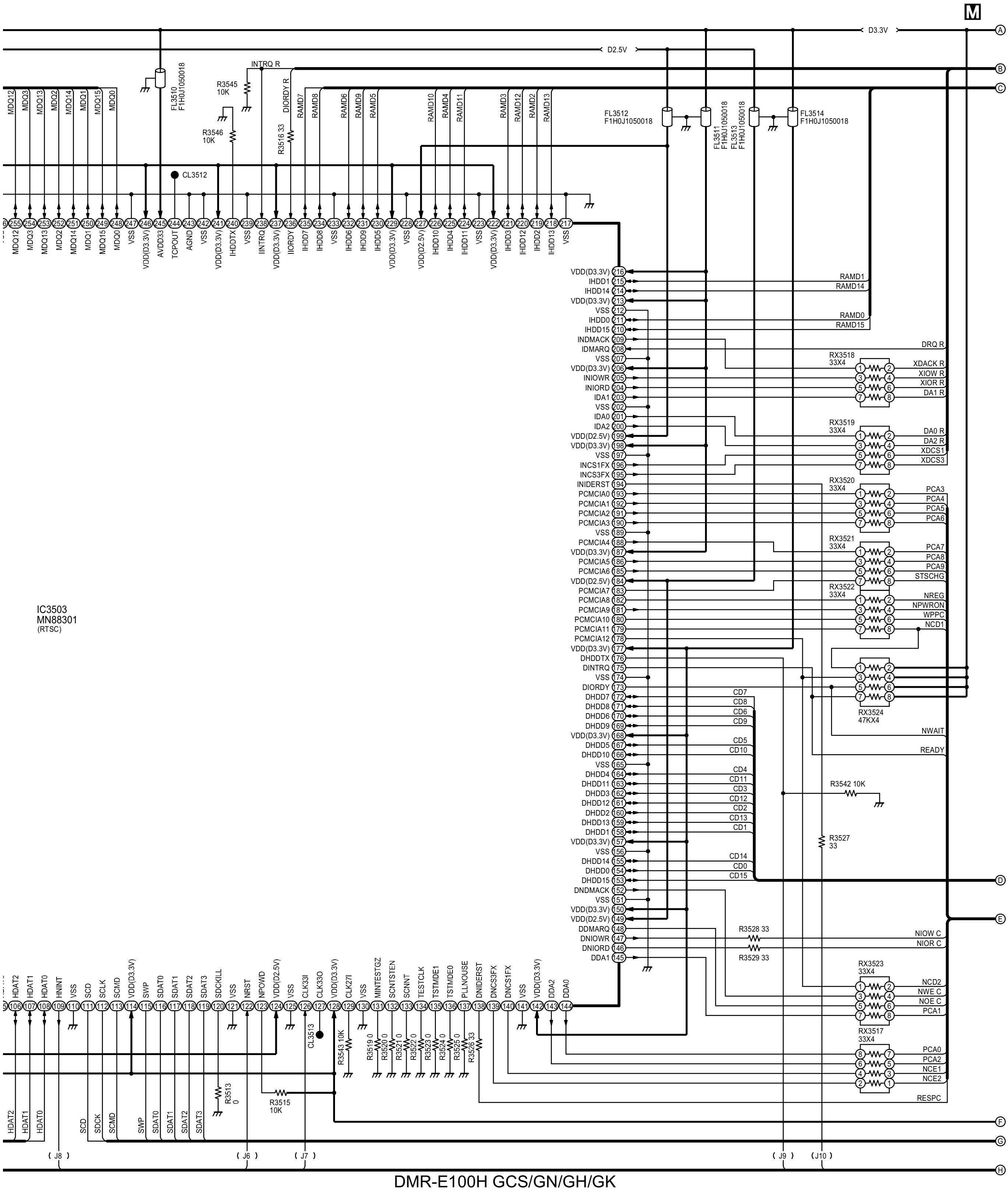

M
D3.3V
D2.5V
RX3515
33X4
MADQB0
MADQB15
MADQB1
MADQB14
MDQ0
MDQ15
MDQ1
MDQ14
RX3514
33X4
MADQB2
MADQB13
MADQB3
MADQB12
MDQ2
MDQ13
MDQ3
MDQ12
RX3511
33X4
MADQB4
MADQB11
MADQB5
MADQB10
MDQ4
MDQ11
MDQ5
MDQ10
RX3509
33X4
MADQB6
MADQB9
MADQB7
MADQB8
MDQ6
MDQ9
MDQ7
MDQ8
MADQB12
MADQB11
MADQB10
MADQB9
MADQB8
IC3501
C3ABQG000043
(16bit/128M SDRAM)
DQ12
DQ11
VSSQ
DQ10
DQ9
VDDQ
DQ8
VSS
NC
UDQM
CLK
CKE
NC
A11
A9
A8
A7
A6
A5
A4
VSS
DQ3
DQ4
VDDQ
DQ5
DQ6
VSSQ
DQ7
VDD
LDQM
/WE
CAS
RAS
/CS
BA0
BA1
A10
A0
A1
A2
A3
VDD
MADQB3
MADQB4
MADQB5
MADQB6
MADQB7
RX3507
22X4
DQU D
XWE D
XCAS D
XRAS D
MDQUDM
MNWE
MNCAS
MNRAS
RX3506
22X4
XCS1 D
BA0S D
BA1S D
MNCS0
MNCS1
MBSEL0
MBSEL1
MCK D
R3507 22
MCLK
DQL D
R3508 22
MDQLDM
MAB4
MAB5
MAB6
MAB7
MAB8
MAB9
MAB11
MAB12
DQU D
MCK D
RX3505
22X4
MAB11
MAB12
MAB9
MAB10
MADR11
MADR12
MADR9
MADR10
RX3501
22X4
MAB8
MAB0
MAB7
MAB1
MADR8
MADR0
MADR7
MADR1
RX3502
22X4
MAB2
MAB5
MAB3
MAB4
MADR2
MADR5
MADR3
MADR4
MAB3
MAB2
MAB1
MAB0
MAB10
MAB6
R3503 22
MADR6
BA1S D
BA0S D
XCS1 D
XRAS D
XCAS D
XWE D
DQL D
A
B
C
D
E
F
G
H
I
J
K
7
8
9
10
11
12

DMR-E100H GCS/GN/GH/GK
Real Time Stream(RTSC) Section(Digital P.C.B.(8/9)) Schematic Diagram(DS)


A
B
C
D
E
F
G
H
I
J
K
D3.3V
D2.5V
FL3506
F1H0J1050018
FL3505
F1H0J1050018
FL3507
F1H0J1050018
FL3508
F1H0J1050018
FL3509
F1H0J1050018
IC3503
MN88301
(RTSC)
CL3501
CL3502
CL3503
CL3504
CL3505
CL3506
CL3507
CL3508
CL3509
CL3510
CL3511
J1
J2
J3
J4
J5
J8
MADR10
MADR8
MADR0
MADR7
MADR1
MADR6
MADR2
MADR5
MADR3
MADR4
ED0
ED1
ED2
ED3
ED4
ED5
ED6
ED7
CDREADY
CDACK
RCLKI
B3DATA7
B3DATA6
B3DATA5
B3DATA4
B3DATA3
B3DATA2
B3DATA1
B3DATA0
B3ENBL
B3PCTL
B3STRB
MSA1
MSA2
MSA3
MSA4
MSA5
MSA6
MSA7
SA8
SA9
SA10
1 VSS
2 MADR10
3 MADR8
4 MADR0
5 MADR7
6 MADR1
7 VDD(D3.3V)
8 MADR6
9 MADR2
10 VSS
11 MADR5
12 MADR3
13 MADR4
14 VDD(D2.5V)
15 B1DATA0
16 B1DATA1
17 B1DATA2
18 VDD(D3.3V)
19 B1DATA3
20 B1DATA4
21 B1DATA5
22 B1DATA6
23 VSS
24 B1DATA7
25 B1ENBL
26 B1PCTL
27 B1STRB
28 B2DATA0
29 B2DATA1
30 VDD(D2.5V)
31 B2DATA2
32 B2DATA3
33 VDD(D3.3V)
34 B2DATA4
35 B2DATA5
36 B2DATA6
37 VSS
38 B2DATA7
39 B2ENBL
40 B2PCTL
41 B2STRB
42 B3DATA7
43 B3DATA6
44 B3DATA5
45 B3DATA4
46 B3DATA3
47 B3DATA2
48 VDD(D3.3V)
49 B3DATA1
50 VSS
51 B3DATA0
52 B3ENBL
53 B3PCTL
54 B3STRB
55 HNCS
56 HNRE
57 HNWE0
58 HNWE1
59 VDD(D2.5V)
60 HNDK
61 HADR1
62 VSS
63 VDD(D3.3V)
64 HADR2
65 HADR3
66 HADR4
67 HADR5
68 HADR6
69 HADR7
70 HADR8
71 HADR9
72 HADR10
73 HADR11
74 VSS
75 VDD(D3.3V)
76 HADR12
77 HADR13
78 HADR14
79 HADR15
80 VSS
81 VDD(D3.3V)
82 HADR16
83 HADR17
84 HADR18
85 HADR19
86 HADR20
87 HADR21
88 HDAT15
89 HDAT14
90 HDAT13
91 VDD(D2.5V)
92 VSS
93 VDD(D3.3V)
94 HDAT12
95 HDAT11
96 HDAT10
97 HDAT9
98 HDAT8
99 HDAT7
100 HDAT6
101 VSS
102 HDAT5
103 HDAT4
104 VDD(D3.3V)
105 HDAT3
106 HDAT2
107 HDAT1
108 HDAT0
109 HNINT
110 VSS
111 SCD
112 SCLK
SA11
SA12
SA13
SA14
SA15
SA16
SA17
SA18
SA19
SA20
SA21
HDAT15
HDAT14
HDAT13
HDAT12
HDAT11
HDAT10
HDAT9
HDAT8
HDAT7
HDAT6
HDAT5
HDAT4
HDAT3
HDAT2
HDAT1
HDAT0
SCD
SDCK
288
287 VDD(D3.3V)
286 VSS
285 MADR9
284 MADR12
283 MADR11
282 VSS
281 VDD(D2.5V)
280 VDD(D3.3V)
279 MBSEL1
278 MBSEL0
277 MNCS1
276 MNCS0
275 MCLK
274 VSS
273 MNRAS
272 MNCAS
271 MNWE
270 MDQUDM
269 MDQLDM
268 VDD(D3.3V)
267 MDQ8
266 MDQ7
265 VSS
264 MDQ9
263 MDQ6
262 MDQ10
261 MDQ5
260 VDD(D2.5V)
259 MDQ11
258 MDQ4
257 VDD(D3.3V)
256 VSS
255 MDQ12
254 MDQ3
253 MDQ13
252 MDQ2
251 MDQ14
250 MDQ1
249 MDQ15
MADR9
MADR12
MADR11
MBSEL1
MBSEL0
MNCS1
MNCS0
MCLK
MNRAS
MNCAS
MNWE
MDQUDM
MDQLDM
MDQ8
MDQ7
MDQ9
MDQ6
MDQ10
MDQ5
MDQ11
MDQ4
MDQ12
MDQ3
MDQ13
MDQ2
MDQ14
MDQ1
MDQ15

DMR-E100H GCS/GN/GH/GK
Real Time Stream(RTSC) Section(Digital P.C.B.(8/9)) Schematic Diagram(DS)

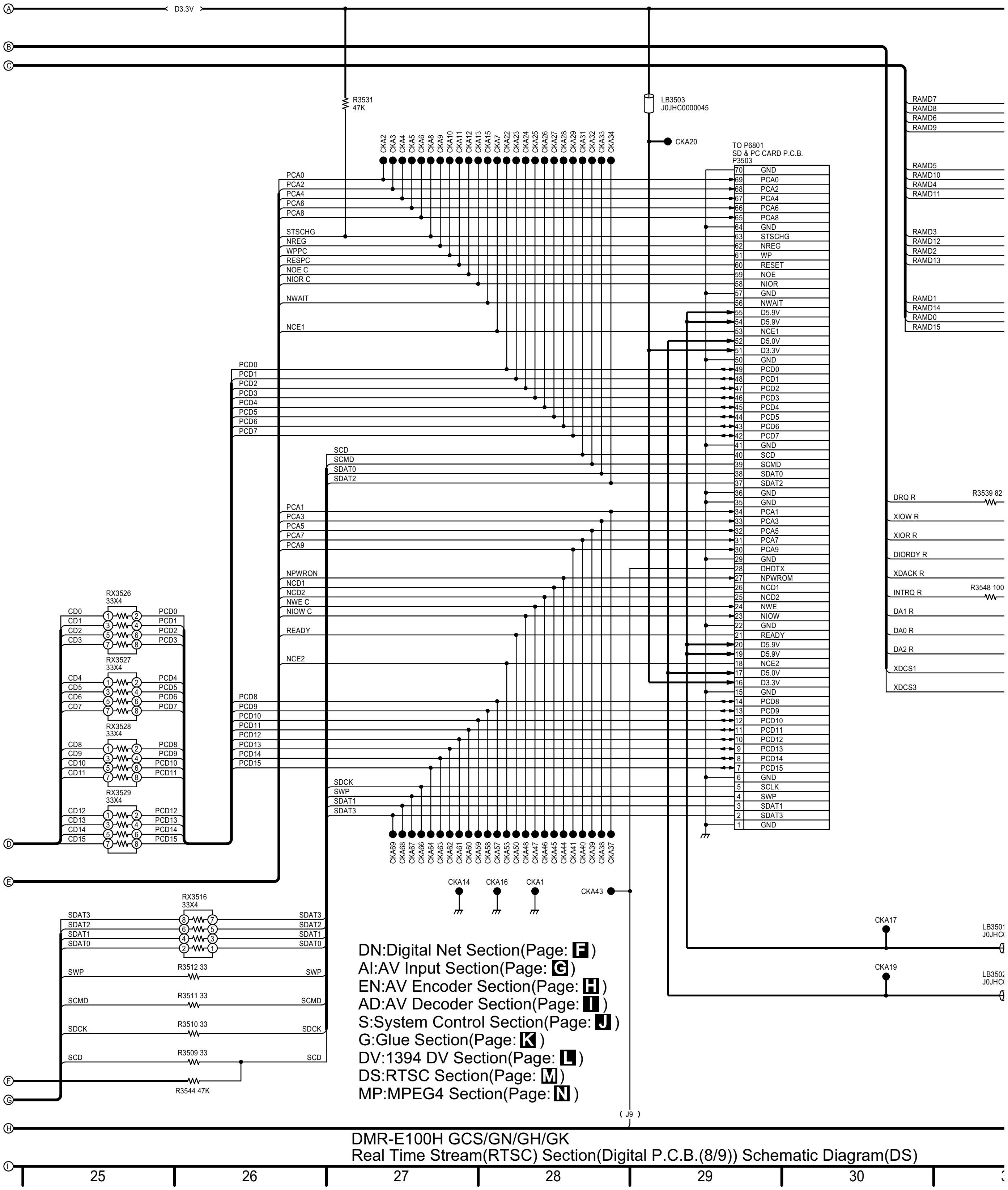
13 14 15 16 17 18


M
D3.3V
D2.5V
INTRQ R
R3545
10K
R3546
10K
FL3510
F1H0J1050018
DIORDY R
R3516 33
CL3512
FL3512
F1H0J1050018
FL3511
F1H0J1050018
FL3513
F1H0J1050018
FL3514
F1H0J1050018
MDQ12
MDQ3
MDQ13
MDQ2
MDQ14
MDQ1
MDQ15
MDQ0
RAMD7
RAMD8
RAMD6
RAMD9
RAMD5
RAMD10
RAMD4
RAMD11
RAMD3
RAMD12
RAMD2
RAMD13
VSS
VDD(D3.3V)
AVDD33
TCPOUT
AGND
IHDDTX
IINTRQ
IIORDY
IHDD7
IHDD8
IHDD6
IHDD9
IHDD5
VDD(D2.5V)
IHDD10
IHDD4
IHDD11
IHDD3
IHDD12
IHDD2
IHDD13
IHDD1
IHDD14
IHDD0
IHDD15
INDMACK
IDMARQ
INIOWR
INIORD
IDA1
IDA0
IDA2
INCS1FX
INCS3FX
INIDERST
PCMCIA0
PCMCIA1
PCMCIA2
PCMCIA3
PCMCIA4
PCMCIA5
PCMCIA6
PCMCIA7
PCMCIA8
PCMCIA9
PCMCIA10
PCMCIA11
PCMCIA12
DHDDTX
DINTRQ
DIORDY
DHDD7
DHDD8
DHDD6
DHDD9
DHDD5
DHDD10
DHDD4
DHDD11
DHDD3
DHDD12
DHDD2
DHDD13
DHDD1
DHDD14
DHDD0
DHDD15
DNDMACK
DDMARQ
DNIOWR
DNIORD
DDA1
RAMD1
RAMD14
RAMD0
RAMD15
DRQ R
RX3518
33X4
XDACK R
XIOW R
XIOR R
DA1 R
RX3519
33X4
DA0 R
DA2 R
XDCS1
XDCS3
RX3520
33X4
PCA3
PCA4
PCA5
PCA6
RX3521
33X4
PCA7
PCA8
PCA9
STSCHG
RX3522
33X4
NREG
NPWRON
WPPC
NCD1
RX3524
47KX4
NWAIT
READY
CD7
CD8
CD6
CD9
CD5
CD10
CD4
CD11
CD3
CD12
CD2
CD13
CD1
CD14
CD0
CD15
R3542 10K
R3527
33
R3528 33
R3529 33
NIOW C
NIOR C
RX3523
33X4
NCD2
NWE C
NOE C
PCA1
RX3517
33X4
PCA0
PCA2
NCE1
NCE2
RESPC
IC3503
MN88301
(RTSC)
HDAT2
HDAT1
HDAT0
HNINT
SCD
SCLK
SCMD
SWP
SDAT0
SDAT1
SDAT2
SDAT3
SDCKILL
NRST
NPOWD
CLK33I
CLK33O
CLK27I
MINTESTGZ
SCNTSTEN
SCNNT
TESTCLK
TSTMDE1
TSTMDE0
PLLNOUSE
DNIDERST
DNCS3FX
DNCS1FX
DDA2
DDA0
CL3513
R3543 10K
R3519 0
R3520 0
R3521 0
R3522 0
R3523 0
R3524 0
R3525 0
R3526 33
R3513
0
R3515
10K
SDCK
(J8)
(J6)
(J7)
(J9)
(J10)
A
B
C
D
E
F
G
H
I

gram(DS)

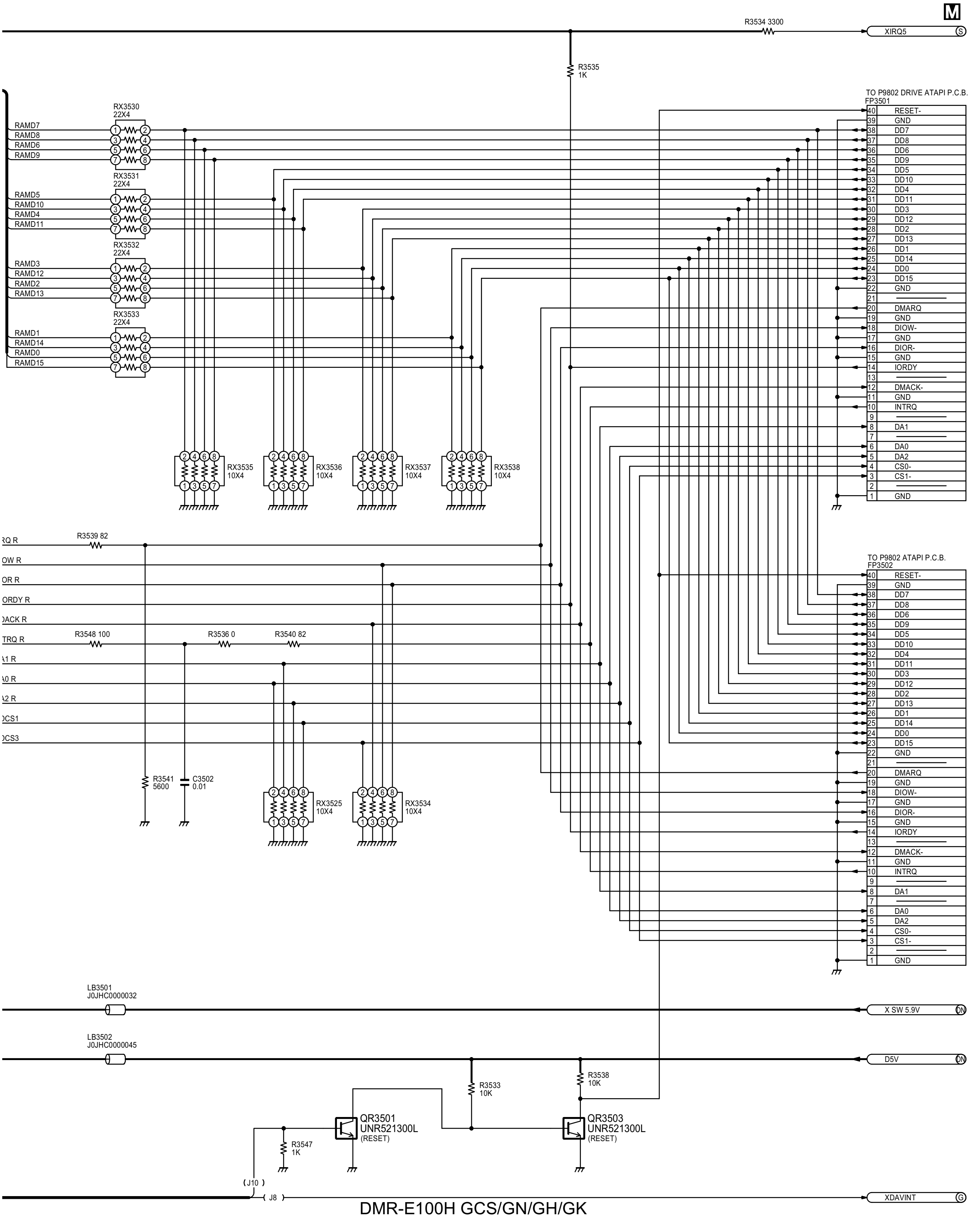
DMR-E100H GCS/GN/GH/GK
Real Time Stream(RTSC) Section(Digital P.C.B.(8/9)) Schematic Diagram(DS)

3 | 19 | 20 | 21 | 22 | 23 | 24


D3.3V
R3531 47K
LB3503 J0JHC0000045
CKA20
TO P6801
SD & PC CARD P.C.B.
P3503
70 GND
69 PCA0
68 PCA2
67 PCA4
66 PCA6
65 PCA8
64 GND
63 STSCHG
62 NREG
61 WP
60 RESET
59 NOE
58 NIOR
57 GND
56 NWAIT
55 D5.9V
54 D5.9V
53 NCE1
52 D5.0V
51 D3.3V
50 GND
49 PCD0
48 PCD1
47 PCD2
46 PCD3
45 PCD4
44 PCD5
43 PCD6
42 PCD7
41 GND
40 SCD
39 SCMD
38 SDAT0
37 SDAT2
36 GND
35 GND
34 PCA1
33 PCA3
32 PCA5
31 PCA7
30 PCA9
29 GND
28 DHDTX
27 NPWROM
26 NCD1
25 NCD2
24 NWE
23 NIOW
22 GND
21 READY
20 D5.9V
19 D5.9V
18 NCE2
17 D5.0V
16 D3.3V
15 GND
14 PCD8
13 PCD9
12 PCD10
11 PCD11
10 PCD12
9 PCD13
8 PCD14
7 PCD15
6 GND
5 SCLK
4 SWP
3 SDAT1
2 SDAT3
1 GND
PCA0
PCA2
PCA4
PCA6
PCA8
STSCHG
NREG
WPPC
RESPC
NOE C
NIOR C
NWAIT
NCE1
PCD0
PCD1
PCD2
PCD3
PCD4
PCD5
PCD6
PCD7
SCD
SCMD
SDAT0
SDAT2
PCA1
PCA3
PCA5
PCA7
PCA9
NPWRON
NCD1
NCD2
NWE C
NIOW C
READY
NCE2
PCD8
PCD9
PCD10
PCD11
PCD12
PCD13
PCD14
PCD15
SDCK
SWP
SDAT1
SDAT3
CKA2 CKA3 CKA4 CKA5 CKA6 CKA8 CKA9 CKA10 CKA11 CKA12 CKA13 CKA15 CKA7 CKA22 CKA23 CKA24 CKA25 CKA26 CKA27 CKA28 CKA29 CKA31 CKA32 CKA33 CKA34
CKA69 CKA68 CKA67 CKA66 CKA64 CKA63 CKA62 CKA61 CKA60 CKA59 CKA58 CKA57 CKA53 CKA50 CKA48 CKA47 CKA46 CKA45 CKA44 CKA41 CKA40 CKA39 CKA38 CKA37
CKA14
CKA16
CKA1
CKA43
CKA17
CKA19
LB3501 J0JHC
LB3502 J0JHC
RX3526 33X4
RX3527 33X4
RX3528 33X4
RX3529 33X4
CD0 CD1 CD2 CD3 CD4 CD5 CD6 CD7 CD8 CD9 CD10 CD11 CD12 CD13 CD14 CD15
RX3516 33X4
SDAT3
SDAT2
SDAT1
SDAT0
SWP
SCMD
SDCK
SCD
R3512 33
R3511 33
R3510 33
R3509 33
R3544 47K
RAMD7
RAMD8
RAMD6
RAMD9
RAMD5
RAMD10
RAMD4
RAMD11
RAMD3
RAMD12
RAMD2
RAMD13
RAMD1
RAMD14
RAMD0
RAMD15
DRQ R
R3539 82
XIOW R
XIOR R
DIORDY R
XDACK R
INTRQ R
R3548 100
DA1 R
DA0 R
DA2 R
XDCS1
XDCS3
(J9)
A
B
C
D
E
F
G
H
I
25
26
27
28
29
30

DN:Digital Net Section(Page: F)
AI:AV Input Section(Page: G)
EN:AV Encoder Section(Page: H)
AD:AV Decoder Section(Page: I)
S:System Control Section(Page: J)
G:Glue Section(Page: K)
DV:1394 DV Section(Page: L)
DS:RTSC Section(Page: M)
MP:MPEG4 Section(Page: N)

DMR-E100H GCS/GN/GH/GK
Real Time Stream(RTSC) Section(Digital P.C.B.(8/9)) Schematic Diagram(DS)

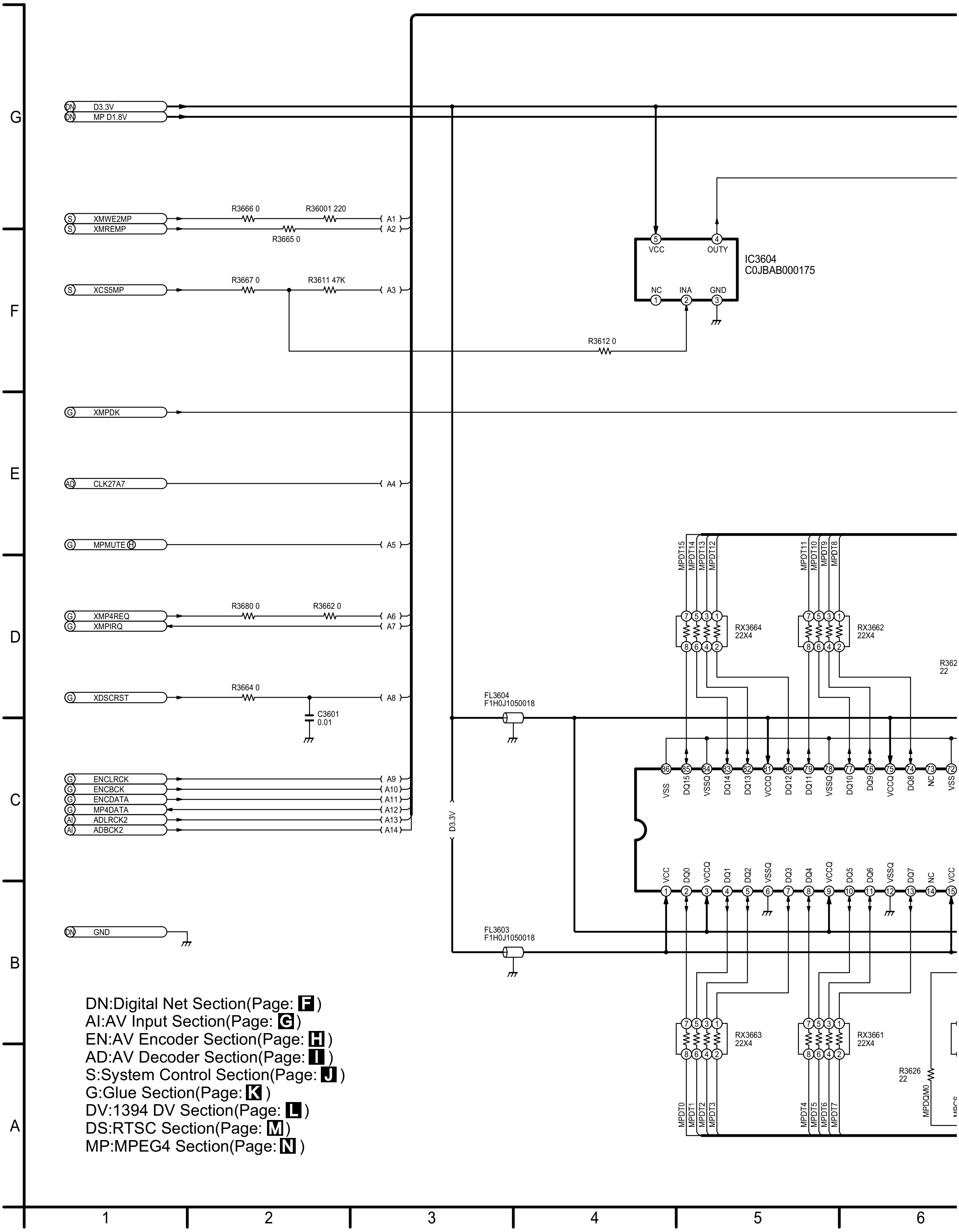

M
R3534 3300
XIRQ5
S
R3535
1K
TO P9802 DRIVE ATAPI P.C.B.
FP3501
RX3530
22X4
RAMD7
RAMD8
RAMD6
RAMD9
RX3531
22X4
RAMD5
RAMD10
RAMD4
RAMD11
RX3532
22X4
RAMD3
RAMD12
RAMD2
RAMD13
RX3533
22X4
RAMD1
RAMD14
RAMD0
RAMD15
40 RESET-
39 GND
38 DD7
37 DD8
36 DD6
35 DD9
34 DD5
33 DD10
32 DD4
31 DD11
30 DD3
29 DD12
28 DD2
27 DD13
26 DD1
25 DD14
24 DD0
23 DD15
22 GND
21
20 DMARQ
19 GND
18 DIOW-
17 GND
16 DIOR-
15 GND
14 IORDY
13
12 DMACK-
11 GND
10 INTRQ
9
8 DA1
7
6 DA0
5 DA2
4 CS0-
3 CS1-
2
1 GND
RX3535
10X4
RX3536
10X4
RX3537
10X4
RX3538
10X4
RQ R
R3539 82
OW R
OR R
ORDY R
DACK R
TRQ R
R3548 100
R3536 0
R3540 82
A1 R
A0 R
A2 R
DCS1
DCS3
R3541
5600
C3502
0.01
RX3525
10X4
RX3534
10X4
TO P9802 ATAPI P.C.B.
FP3502
LB3501
J0JHC0000032
X SW 5.9V
ON
LB3502
J0JHC0000045
D5V
ON
R3533
10K
R3538
10K
QR3501
UNR521300L
(RESET)
QR3503
UNR521300L
(RESET)
R3547
1K
J10
J8
XDAVINT
G

S)

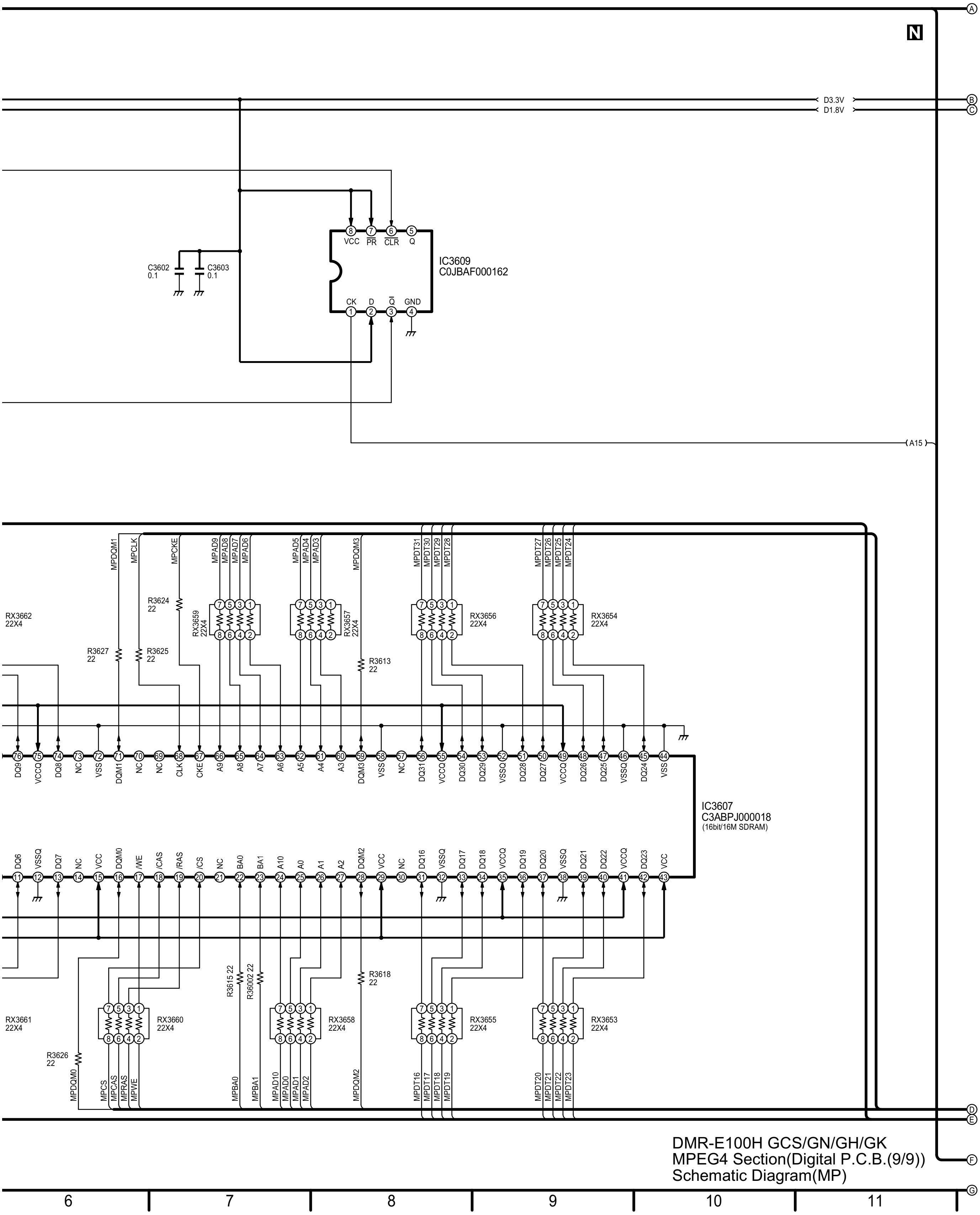
DMR-E100H GCS/GN/GH/GK
Real Time Stream(RTSC) Section(Digital P.C.B.(8/9)) Schematic Diagram(DS)

31 32 33 34 35 36

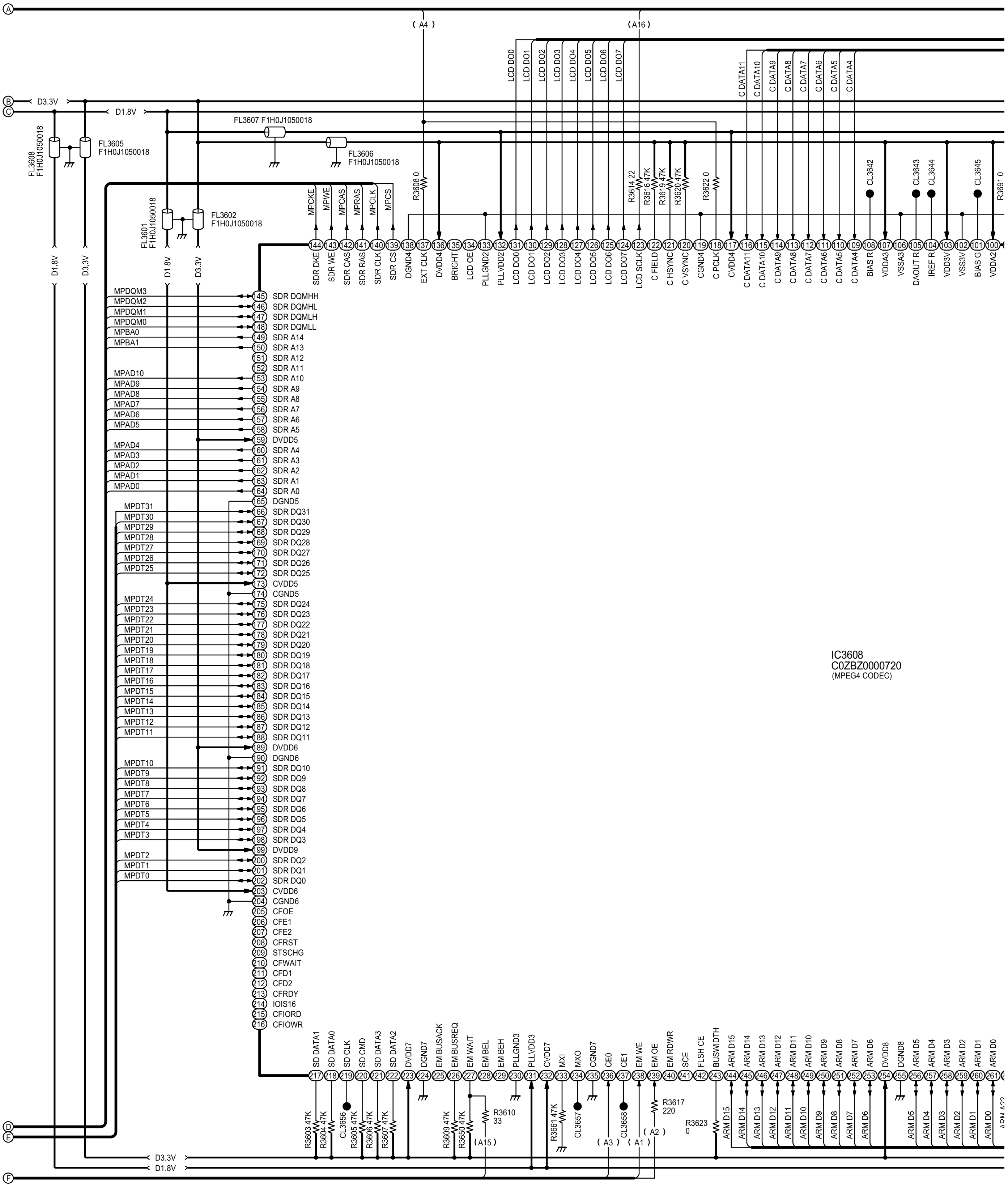
14.16. MPEG4 Schematic Diagram (MP) (Digital P.C.B. 9/9)


G
F
E
D
C
B
A
1
2
3
4
5
6
DN D3.3V
DN MP D1.8V
S XMWE2MP
S XMREMP
S XCS5MP
G XMPDK
AD CLK27A7
G MPMUTE H
G XMP4REQ
G XMPIRQ
G XDSCRST
G ENCLRCK
G ENCBCK
G ENCDATA
G MP4DATA
AI ADLRCK2
AI ADBCK2
DN GND
R3666 0
R36001 220
R3665 0
R3667 0
R3611 47K
R3612 0
R3680 0
R3662 0
R3664 0
C3601
0.01
A1
A2
A3
A4
A5
A6
A7
A8
A9
A10
A11
A12
A13
A14
D3.3V
IC3604
C0JBAB000175
VCC
OUTY
NC
INA
GND
FL3604
F1H0J1050018
FL3603
F1H0J1050018
MPDT15
MPDT14
MPDT13
MPDT12
MPDT11
MPDT10
MPDT9
MPDT8
RX3664
22X4
RX3662
22X4
R362
22
VSS
DQ15
VSSQ
DQ14
DQ13
VCCQ
DQ12
DQ11
VSSQ
DQ10
DQ9
VCCQ
DQ8
NC
VSS
VCC
DQ0
VCCQ
DQ1
DQ2
VSSQ
DQ3
DQ4
VCCQ
DQ5
DQ6
VSSQ
DQ7
NC
VCC
RX3663
22X4
RX3661
22X4
R3626
22
MPDQM0
MPDT0
MPDT1
MPDT2
MPDT3
MPDT4
MPDT5
MPDT6
MPDT7

DN:Digital Net Section(Page: F)
AI:AV Input Section(Page: G)
EN:AV Encoder Section(Page: H)
AD:AV Decoder Section(Page: I)
S:System Control Section(Page: J)
G:Glue Section(Page: K)
DV:1394 DV Section(Page: L)
DS:RTSC Section(Page: M)
MP:MPEG4 Section(Page: N)

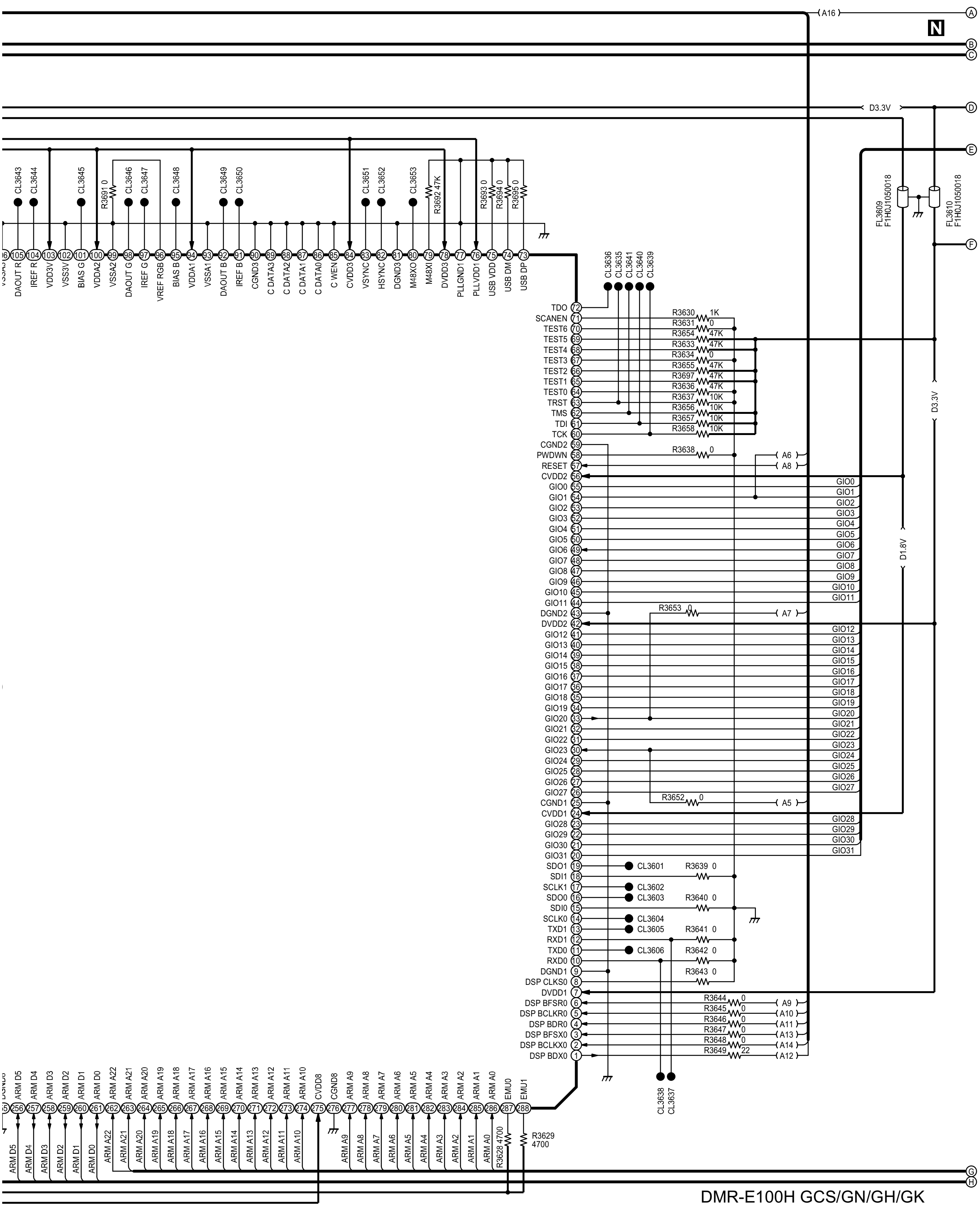

A
B
C
D
E
F
G
N
D3.3V
D1.8V
C3602
0.1
C3603
0.1
VCC
PR
CLR
Q
CK
D
Q
GND
8
7
6
5
1
2
3
4
IC3609
C0JBAF000162
A15
MPDQM1
MPCLK
MPCKE
MPAD9
MPAD8
MPAD7
MPAD6
MPAD5
MPAD4
MPAD3
MPDQM3
MPDT31
MPDT30
MPDT29
MPDT28
MPDT27
MPDT26
MPDT25
MPDT24
RX3662
22X4
R3627
22
R3625
22
R3624
22
RX3659
22X4
RX3657
22X4
R3613
22
RX3656
22X4
RX3654
22X4
76 DQ9
75 VCCQ
74 DQ8
73 NC
72 VSS
71 DQM1
70 NC
69 NC
68 CLK
67 CKE
66 A9
65 A8
64 A7
63 A6
62 A5
61 A4
60 A3
59 DQM3
58 VSS
57 NC
56 DQ31
55 VCCQ
54 DQ30
53 DQ29
52 VSSQ
51 DQ28
50 DQ27
49 VCCQ
48 DQ26
47 DQ25
46 VSSQ
45 DQ24
44 VSS
IC3607
C3ABPJ000018
(16bit/16M SDRAM)
11 DQ6
12 VSSQ
13 DQ7
14 NC
15 VCC
16 DQM0
17 /WE
18 /CAS
19 /RAS
20 /CS
21 NC
22 BA0
23 BA1
24 A10
25 A0
26 A1
27 A2
28 DQM2
29 VCC
30 NC
31 DQ16
32 VSSQ
33 DQ17
34 DQ18
35 VCCQ
36 DQ19
37 DQ20
38 VSSQ
39 DQ21
40 DQ22
41 VCCQ
42 DQ23
43 VCC
RX3661
22X4
RX3660
22X4
R3615 22
R36002 22
RX3658
22X4
R3618
22
RX3655
22X4
RX3653
22X4
R3626
22
MPDQM0
MPCS
MPCAS
MPRAS
MPWE
MPBA0
MPBA1
MPAD10
MPAD0
MPAD1
MPAD2
MPDQM2
MPDT16
MPDT17
MPDT18
MPDT19
MPDT20
MPDT21
MPDT22
MPDT23
6
7
8
9
10
11

DMR-E100H GCS/GN/GH/GK
MPEG4 Section(Digital P.C.B.(9/9))
Schematic Diagram(MP)


A
B
C
D
E
F
D3.3V
D1.8V
(A4)
(A16)
(A15)
(A3)
(A1)
(A2)
FL3608 F1H0J1050018
FL3605 F1H0J1050018
FL3607 F1H0J1050018
FL3606 F1H0J1050018
FL3601 F1H0J1050018
FL3602 F1H0J1050018
LCD DO0
LCD DO1
LCD DO2
LCD DO3
LCD DO4
LCD DO5
LCD DO6
LCD DO7
C DATA11
C DATA10
C DATA9
C DATA8
C DATA7
C DATA6
C DATA5
C DATA4
MPCKE
MPWE
MPCAS
MPRAS
MPCLK
MPCS
R3608 0
R3614 22
R3616 47K
R3619 47K
R3620 47K
R3622 0
CL3642
CL3643
CL3644
CL3645
R3691 0
144 SDR DKE
143 SDR WE
142 SDR CAS
141 SDR RAS
140 SDR CLK
139 SDR CS
138 DGND4
137 EXT CLK
136 DVDD4
135 BRIGHT
134 LCD OE
133 PLLGND2
132 PLLVDD2
131 LCD DO0
130 LCD DO1
129 LCD DO2
128 LCD DO3
127 LCD DO4
126 LCD DO5
125 LCD DO6
124 LCD DO7
123 LCD SCLK
122 C FIELD
121 C HSYNC
120 C VSYNC
119 CGND4
118 C PCLK
117 CVDD4
116 C DATA11
115 C DATA10
114 C DATA9
113 C DATA8
112 C DATA7
111 C DATA6
110 C DATA5
109 C DATA4
108 BIAS R
107 VDDA3
106 VSSA3
105 DAOUT R
104 IREF R
103 VDD3V
102 VSS3V
101 BIAS G
100 VDDA2
MPDQM3
MPDQM2
MPDQM1
MPDQM0
MPBA0
MPBA1
MPAD10
MPAD9
MPAD8
MPAD7
MPAD6
MPAD5
MPAD4
MPAD3
MPAD2
MPAD1
MPAD0
MPDT31
MPDT30
MPDT29
MPDT28
MPDT27
MPDT26
MPDT25
MPDT24
MPDT23
MPDT22
MPDT21
MPDT20
MPDT19
MPDT18
MPDT17
MPDT16
MPDT15
MPDT14
MPDT13
MPDT12
MPDT11
MPDT10
MPDT9
MPDT8
MPDT7
MPDT6
MPDT5
MPDT4
MPDT3
MPDT2
MPDT1
MPDT0
145 SDR DQMHH
146 SDR DQMHL
147 SDR DQMLH
148 SDR DQMLL
149 SDR A14
150 SDR A13
151 SDR A12
152 SDR A11
153 SDR A10
154 SDR A9
155 SDR A8
156 SDR A7
157 SDR A6
158 SDR A5
159 DVDD5
160 SDR A4
161 SDR A3
162 SDR A2
163 SDR A1
164 SDR A0
165 DGND5
166 SDR DQ31
167 SDR DQ30
168 SDR DQ29
169 SDR DQ28
170 SDR DQ27
171 SDR DQ26
172 SDR DQ25
173 CVDD5
174 CGND5
175 SDR DQ24
176 SDR DQ23
177 SDR DQ22
178 SDR DQ21
179 SDR DQ20
180 SDR DQ19
181 SDR DQ18
182 SDR DQ17
183 SDR DQ16
184 SDR DQ15
185 SDR DQ14
186 SDR DQ13
187 SDR DQ12
188 SDR DQ11
189 DVDD6
190 DGND6
191 SDR DQ10
192 SDR DQ9
193 SDR DQ8
194 SDR DQ7
195 SDR DQ6
196 SDR DQ5
197 SDR DQ4
198 SDR DQ3
199 DVDD9
200 SDR DQ2
201 SDR DQ1
202 SDR DQ0
203 CVDD6
204 CGND6
205 CFOE
206 CFE1
207 CFE2
208 CFRST
209 STSCHG
210 CFWAIT
211 CFD1
212 CFD2
213 CFRDY
214 IOIS16
215 CFIORD
216 CFIOWR
IC3608
C0ZBZ0000720
(MPEG4 CODEC)
217 SD DATA1
218 SD DATA0
219 SD CLK
220 SD CMD
221 SD DATA3
222 SD DATA2
223 DVDD7
224 DGND7
225 EM BUSACK
226 EM BUSREQ
227 EM WAIT
228 EM BEL
229 EM BEH
230 PLLGND3
231 PLLVDD3
232 CVDD7
233 MXI
234 MXO
235 CGND7
236 CE0
237 CE1
238 EM WE
239 EM OE
240 EM RDWR
241 SCE
242 FLSH CE
243 BUSWIDTH
244 ARM D15
245 ARM D14
246 ARM D13
247 ARM D12
248 ARM D11
249 ARM D10
250 ARM D9
251 ARM D8
252 ARM D7
253 ARM D6
254 DVDD8
255 DGND8
256 ARM D5
257 ARM D4
258 ARM D3
259 ARM D2
260 ARM D1
261 ARM D0
R3603 47K
R3604 47K
CL3656
R3605 47K
R3606 47K
R3607 47K
R3609 47K
R3650 47K
R3610 33
R3661 47K
CL3657
CL3658
R3617 220
R3623 0
ARM D15
ARM D14
ARM D13
ARM D12
ARM D11
ARM D10
ARM D9
ARM D8
ARM D7
ARM D6
ARM D5
ARM D4
ARM D3
ARM D2
ARM D1
ARM D0
G

DMR-E100H GCS/GN/GH/GK MPEG4 Section(Digital P.C.B.(9/9)) Schematic Diagram(MP)

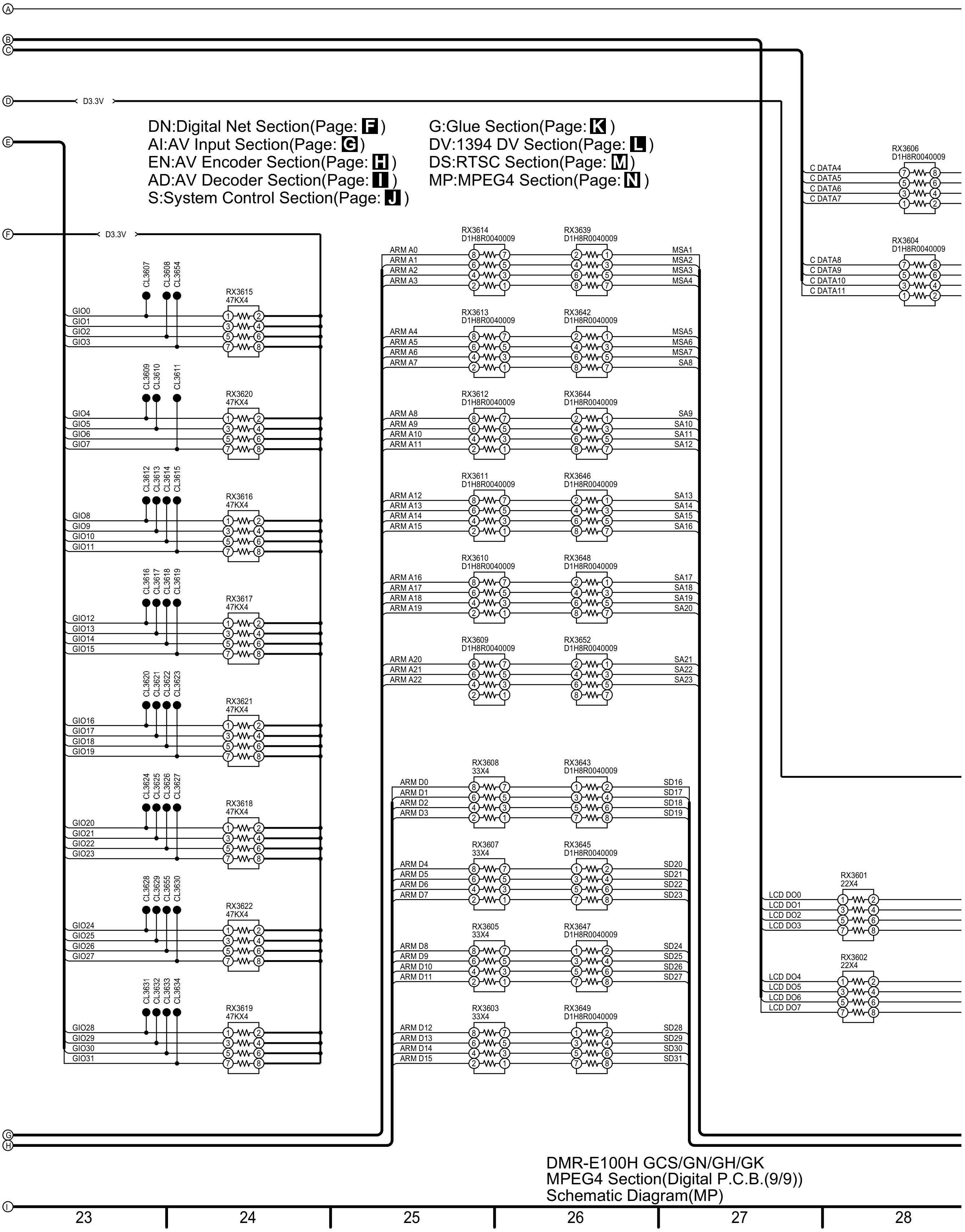
12	13	14	15	16	17


N
A16
D3.3V
D1.8V
D3.3V
FL3609 F1H0J1050018
FL3610 F1H0J1050018
CL3643
CL3644
CL3645
R3691 0
CL3646
CL3647
CL3648
CL3649
CL3650
CL3651
CL3652
CL3653
R3692 47K
R3693 0
R3694 0
R3695 0
DAOUT R
IREF R
VDD3V
VSS3V
BIAS G
VDDA2
VSSA2
DAOUT G
IREF G
VREF RGB
BIAS B
VDDA1
VSSA1
DAOUT B
IREF B
CGND3
C DATA3
C DATA2
C DATA1
C DATA0
C WEN
CVDD3
VSYNC
HSYNC
DGND3
M48XO
M48XI
DVDD3
PLLGND1
PLLVDD1
USB VDD
USB DM
USB DP
CL3636
CL3635
CL3641
CL3640
CL3639
TDO
SCANEN
TEST6
TEST5
TEST4
TEST3
TEST2
TEST1
TEST0
TRST
TMS
TDI
TCK
CGND2
PWDWN
RESET
CVDD2
GIO0
GIO1
GIO2
GIO3
GIO4
GIO5
GIO6
GIO7
GIO8
GIO9
GIO10
GIO11
DGND2
DVDD2
GIO12
GIO13
GIO14
GIO15
GIO16
GIO17
GIO18
GIO19
GIO20
GIO21
GIO22
GIO23
GIO24
GIO25
GIO26
GIO27
CGND1
CVDD1
GIO28
GIO29
GIO30
GIO31
SDO1
SDI1
SCLK1
SDO0
SDI0
SCLK0
TXD1
RXD1
TXD0
RXD0
DGND1
DSP CLKS0
DVDD1
DSP BFSR0
DSP BCLKR0
DSP BDR0
DSP BFSX0
DSP BCLKX0
DSP BDX0
R3630 1K
R3631 0
R3654 47K
R3633 47K
R3634 0
R3655 47K
R3697 47K
R3636 47K
R3637 10K
R3656 10K
R3657 10K
R3658 10K
R3638 0
A6
A8
R3653 0
A7
R3652 0
A5
CL3601
CL3602
CL3603
CL3604
CL3605
CL3606
R3639 0
R3640 0
R3641 0
R3642 0
R3643 0
R3644 0
R3645 0
R3646 0
R3647 0
R3648 0
R3649 22
A9
A10
A11
A13
A14
A12
CL3638
CL3637
ARM D5
ARM D4
ARM D3
ARM D2
ARM D1
ARM D0
ARM A22
ARM A21
ARM A20
ARM A19
ARM A18
ARM A17
ARM A16
ARM A15
ARM A14
ARM A13
ARM A12
ARM A11
ARM A10
CVDD8
CGND8
ARM A9
ARM A8
ARM A7
ARM A6
ARM A5
ARM A4
ARM A3
ARM A2
ARM A1
ARM A0
EMU0
EMU1
R3628 4700
R3629 4700
A
B
C
D
E
F
G
H
I

ram(MP)

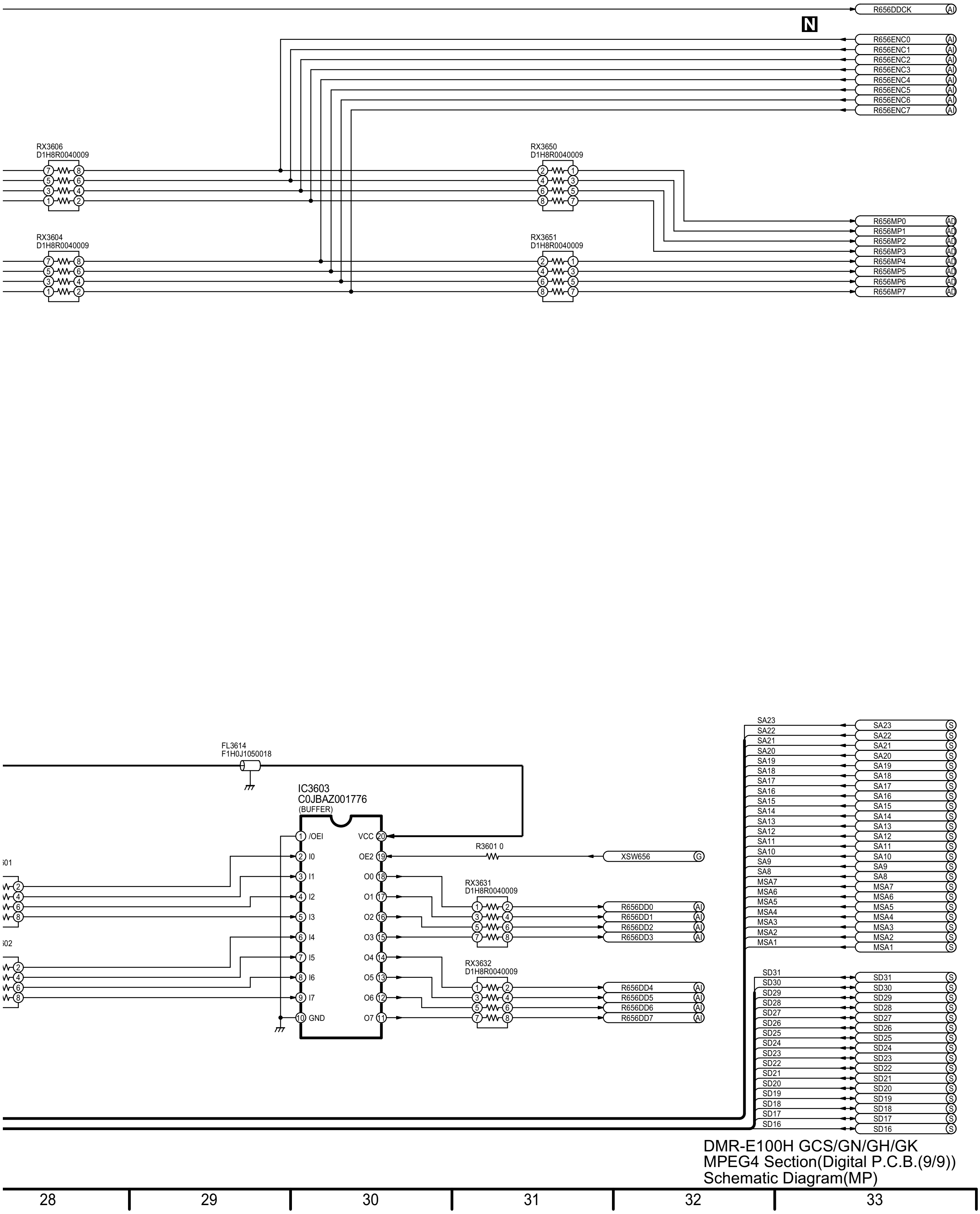
DMR-E100H GCS/GN/GH/GK
MPEG4 Section(Digital P.C.B.(9/9))
Schematic Diagram(MP)

18 19 20 21 22


A
B
C
D
E
F
G
H
I
D3.3V
D3.3V
RX3606
D1H8R0040009
C DATA4
C DATA5
C DATA6
C DATA7
RX3604
D1H8R0040009
C DATA8
C DATA9
C DATA10
C DATA11
CL3607
CL3608
CL3654
RX3615
47KX4
GIO0
GIO1
GIO2
GIO3
CL3609
CL3610
CL3611
RX3620
47KX4
GIO4
GIO5
GIO6
GIO7
CL3612
CL3613
CL3614
CL3615
RX3616
47KX4
GIO8
GIO9
GIO10
GIO11
CL3616
CL3617
CL3618
CL3619
RX3617
47KX4
GIO12
GIO13
GIO14
GIO15
CL3620
CL3621
CL3622
CL3623
RX3621
47KX4
GIO16
GIO17
GIO18
GIO19
CL3624
CL3625
CL3626
CL3627
RX3618
47KX4
GIO20
GIO21
GIO22
GIO23
CL3628
CL3629
CL3655
CL3630
RX3622
47KX4
GIO24
GIO25
GIO26
GIO27
CL3631
CL3632
CL3633
CL3634
RX3619
47KX4
GIO28
GIO29
GIO30
GIO31
RX3614
D1H8R0040009
RX3639
D1H8R0040009
ARM A0
ARM A1
ARM A2
ARM A3
MSA1
MSA2
MSA3
MSA4
RX3613
D1H8R0040009
RX3642
D1H8R0040009
ARM A4
ARM A5
ARM A6
ARM A7
MSA5
MSA6
MSA7
SA8
RX3612
D1H8R0040009
RX3644
D1H8R0040009
ARM A8
ARM A9
ARM A10
ARM A11
SA9
SA10
SA11
SA12
RX3611
D1H8R0040009
RX3646
D1H8R0040009
ARM A12
ARM A13
ARM A14
ARM A15
SA13
SA14
SA15
SA16
RX3610
D1H8R0040009
RX3648
D1H8R0040009
ARM A16
ARM A17
ARM A18
ARM A19
SA17
SA18
SA19
SA20
RX3609
D1H8R0040009
RX3652
D1H8R0040009
ARM A20
ARM A21
ARM A22
SA21
SA22
SA23
RX3608
33X4
RX3643
D1H8R0040009
ARM D0
ARM D1
ARM D2
ARM D3
SD16
SD17
SD18
SD19
RX3607
33X4
RX3645
D1H8R0040009
ARM D4
ARM D5
ARM D6
ARM D7
SD20
SD21
SD22
SD23
RX3605
33X4
RX3647
D1H8R0040009
ARM D8
ARM D9
ARM D10
ARM D11
SD24
SD25
SD26
SD27
RX3603
33X4
RX3649
D1H8R0040009
ARM D12
ARM D13
ARM D14
ARM D15
SD28
SD29
SD30
SD31
RX3601
22X4
LCD DO0
LCD DO1
LCD DO2
LCD DO3
RX3602
22X4
LCD DO4
LCD DO5
LCD DO6
LCD DO7
23
24
25
26
27
28

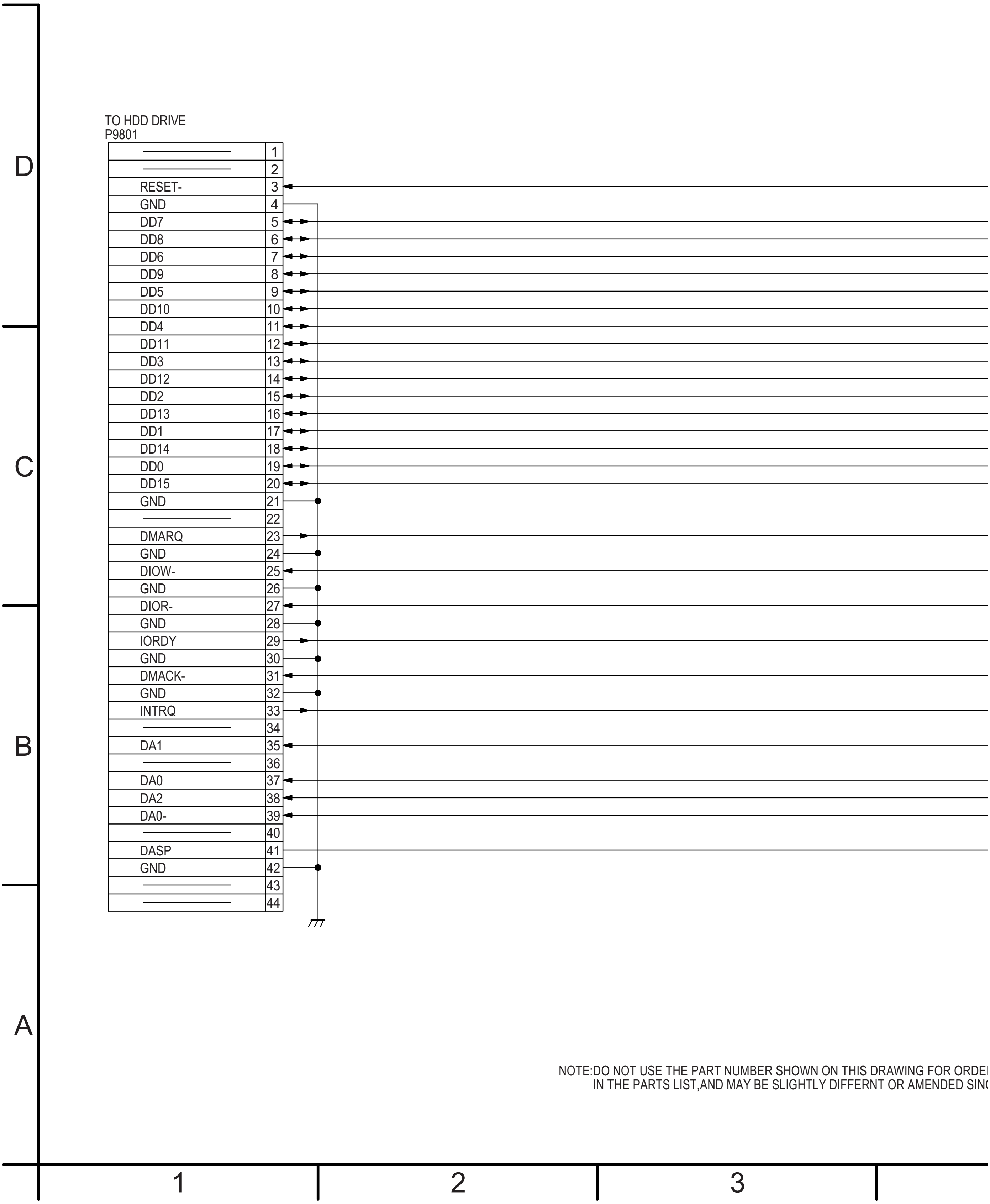
DN:Digital Net Section(Page: **F**)
AI:AV Input Section(Page: **G**)
EN:AV Encoder Section(Page: **H**)
AD:AV Decoder Section(Page: **I**)
S:System Control Section(Page: **J**)
G:Glue Section(Page: **K**)
DV:1394 DV Section(Page: **L**)
DS:RTSC Section(Page: **M**)
MP:MPEG4 Section(Page: **N**)

DMR-E100H GCS/GN/GH/GK
MPEG4 Section(Digital P.C.B.(9/9))
Schematic Diagram(MP)


R656DDCK
AI
N
R656ENC0
R656ENC1
R656ENC2
R656ENC3
R656ENC4
R656ENC5
R656ENC6
R656ENC7
RX3606
D1H8R0040009
RX3650
D1H8R0040009
R656MP0
R656MP1
R656MP2
R656MP3
R656MP4
R656MP5
R656MP6
R656MP7
AD
RX3604
D1H8R0040009
RX3651
D1H8R0040009
FL3614
F1H0J1050018
IC3603
C0JBAZ001776
(BUFFER)
/OEI
I0
I1
I2
I3
I4
I5
I6
I7
GND
VCC
OE2
O0
O1
O2
O3
O4
O5
O6
O7
R3601 0
XSW656
G
RX3631
D1H8R0040009
R656DD0
R656DD1
R656DD2
R656DD3
RX3632
D1H8R0040009
R656DD4
R656DD5
R656DD6
R656DD7
SA23
SA22
SA21
SA20
SA19
SA18
SA17
SA16
SA15
SA14
SA13
SA12
SA11
SA10
SA9
SA8
MSA7
MSA6
MSA5
MSA4
MSA3
MSA2
MSA1
SD31
SD30
SD29
SD28
SD27
SD26
SD25
SD24
SD23
SD22
SD21
SD20
SD19
SD18
SD17
SD16
S
28
29
30
31
32
33

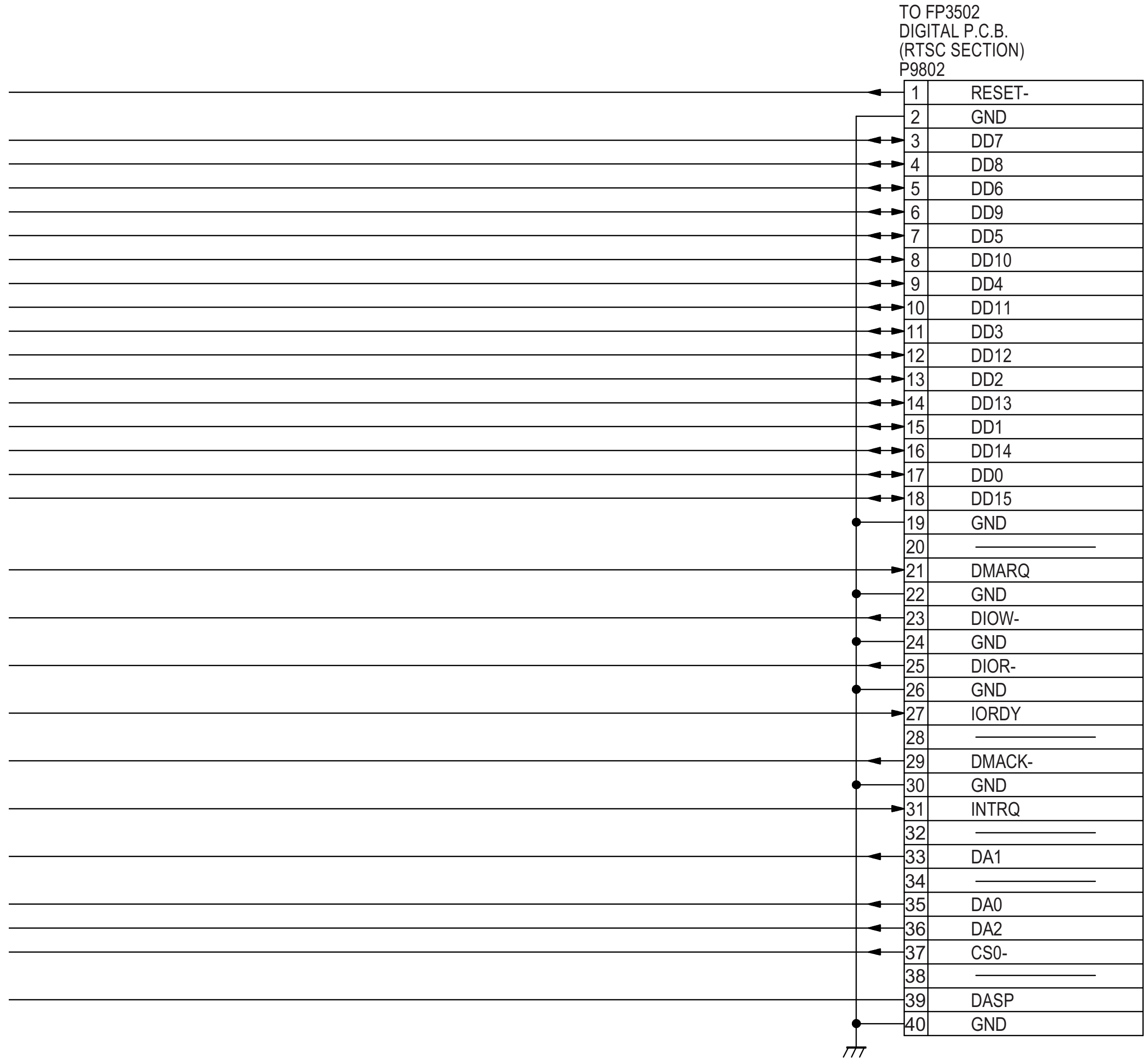
DMR-E100H GCS/GN/GH/GK
MPEG4 Section(Digital P.C.B.(9/9))
Schematic Diagram(MP)

14.17. ATAPI Schematic Diagram



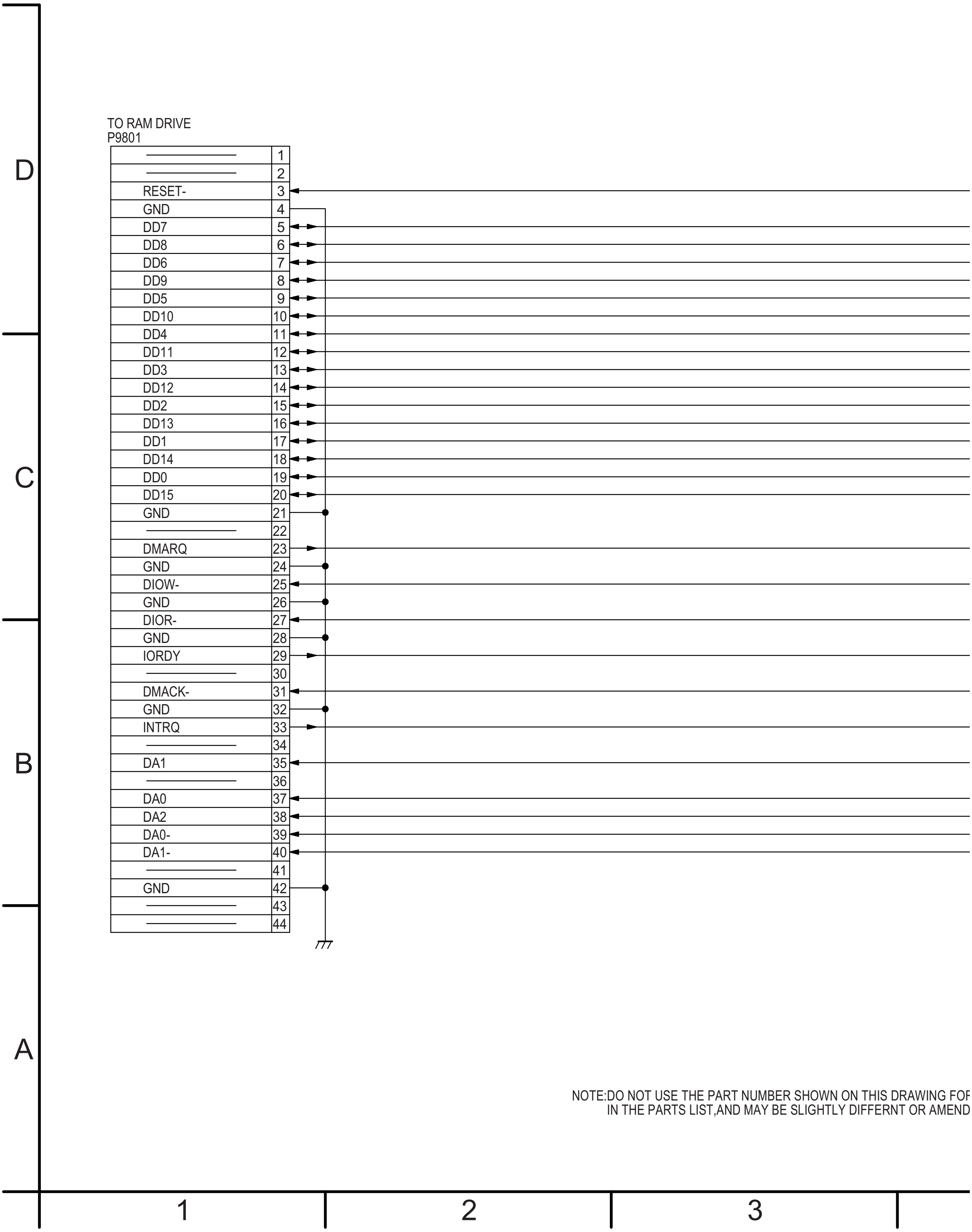
TO HDD DRIVE
P9801
1
2
RESET- 3
GND 4
DD7 5
DD8 6
DD6 7
DD9 8
DD5 9
DD10 10
DD4 11
DD11 12
DD3 13
DD12 14
DD2 15
DD13 16
DD1 17
DD14 18
DD0 19
DD15 20
GND 21
22
DMARQ 23
GND 24
DIOW- 25
GND 26
DIOR- 27
GND 28
IORDY 29
GND 30
DMACK- 31
GND 32
INTRQ 33
34
DA1 35
36
DA0 37
DA2 38
DA0- 39
40
DASP 41
GND 42
43
44
D
C
B
A
1
2
3

NOTE:DO NOT USE THE PART NUMBER SHOWN ON THIS DRAWING FOR ORDE
IN THE PARTS LIST,AND MAY BE SLIGHTLY DIFFERNT OR AMENDED SIN

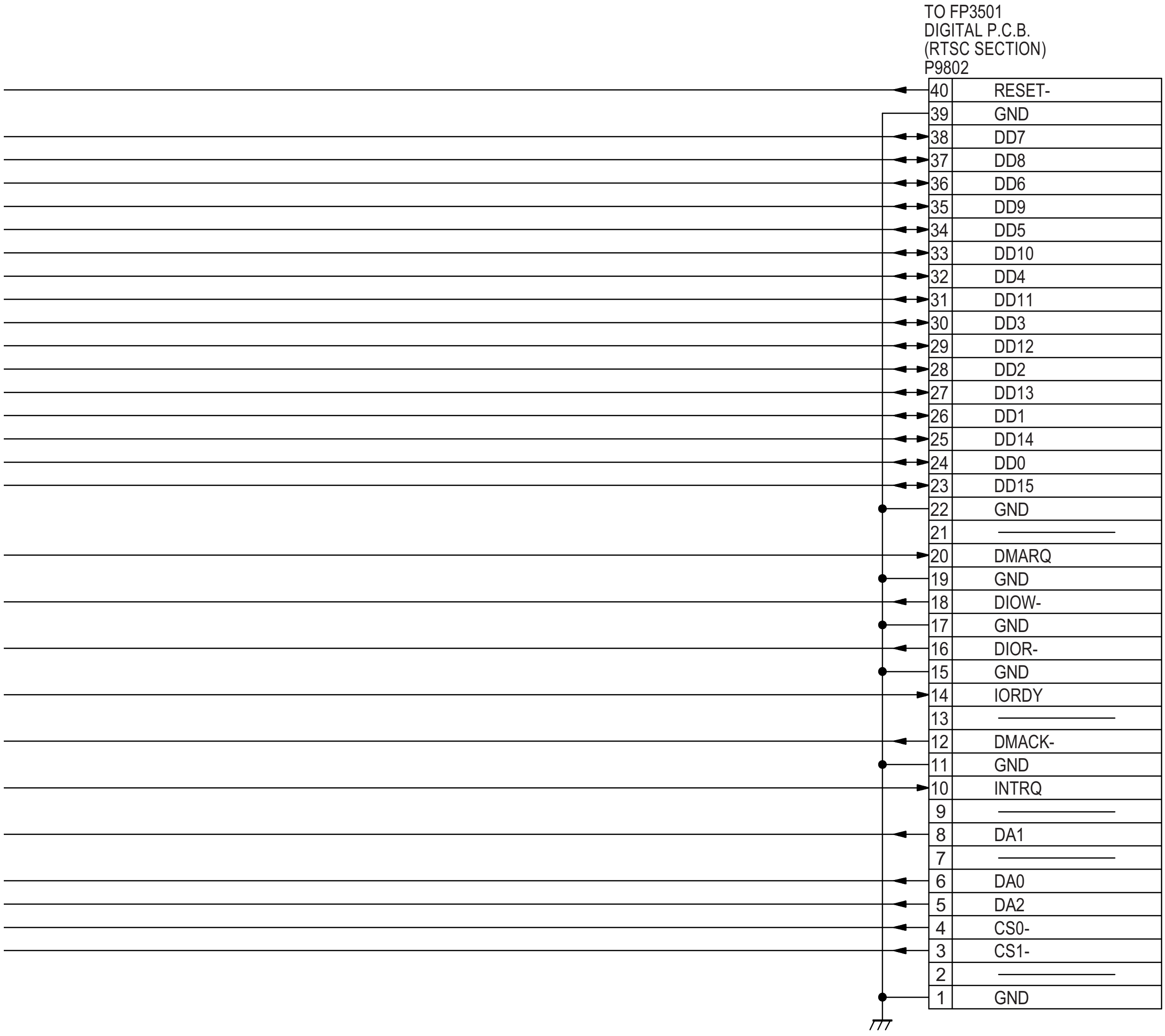

TO FP3502
DIGITAL P.C.B.
(RTSC SECTION)
P9802
1 RESET-
2 GND
3 DD7
4 DD8
5 DD6
6 DD9
7 DD5
8 DD10
9 DD4
10 DD11
11 DD3
12 DD12
13 DD2
14 DD13
15 DD1
16 DD14
17 DD0
18 DD15
19 GND
20
21 DMARQ
22 GND
23 DIOW-
24 GND
25 DIOR-
26 GND
27 IORDY
28
29 DMACK-
30 GND
31 INTRQ
32
33 DA1
34
35 DA0
36 DA2
37 CS0-
38
39 DASP
40 GND

AWING FOR ORDERRING.THE CORRECT PART NUMBER IS SHOWN
OR AMENDED SINCE THIS DRAWING WAS PREPARED.

14.18. Drive ATAPI Schematic Diagram


TO RAM DRIVE
P9801
1
2
RESET- 3
GND 4
DD7 5
DD8 6
DD6 7
DD9 8
DD5 9
DD10 10
DD4 11
DD11 12
DD3 13
DD12 14
DD2 15
DD13 16
DD1 17
DD14 18
DD0 19
DD15 20
GND 21
22
DMARQ 23
GND 24
DIOW- 25
GND 26
DIOR- 27
GND 28
IORDY 29
30
DMACK- 31
GND 32
INTRQ 33
34
DA1 35
36
DA0 37
DA2 38
DA0- 39
DA1- 40
41
GND 42
43
44
D
C
B
A
1
2
3

NOTE:DO NOT USE THE PART NUMBER SHOWN ON THIS DRAWING FOR
IN THE PARTS LIST,AND MAY BE SLIGHTLY DIFFERNT OR AMEND

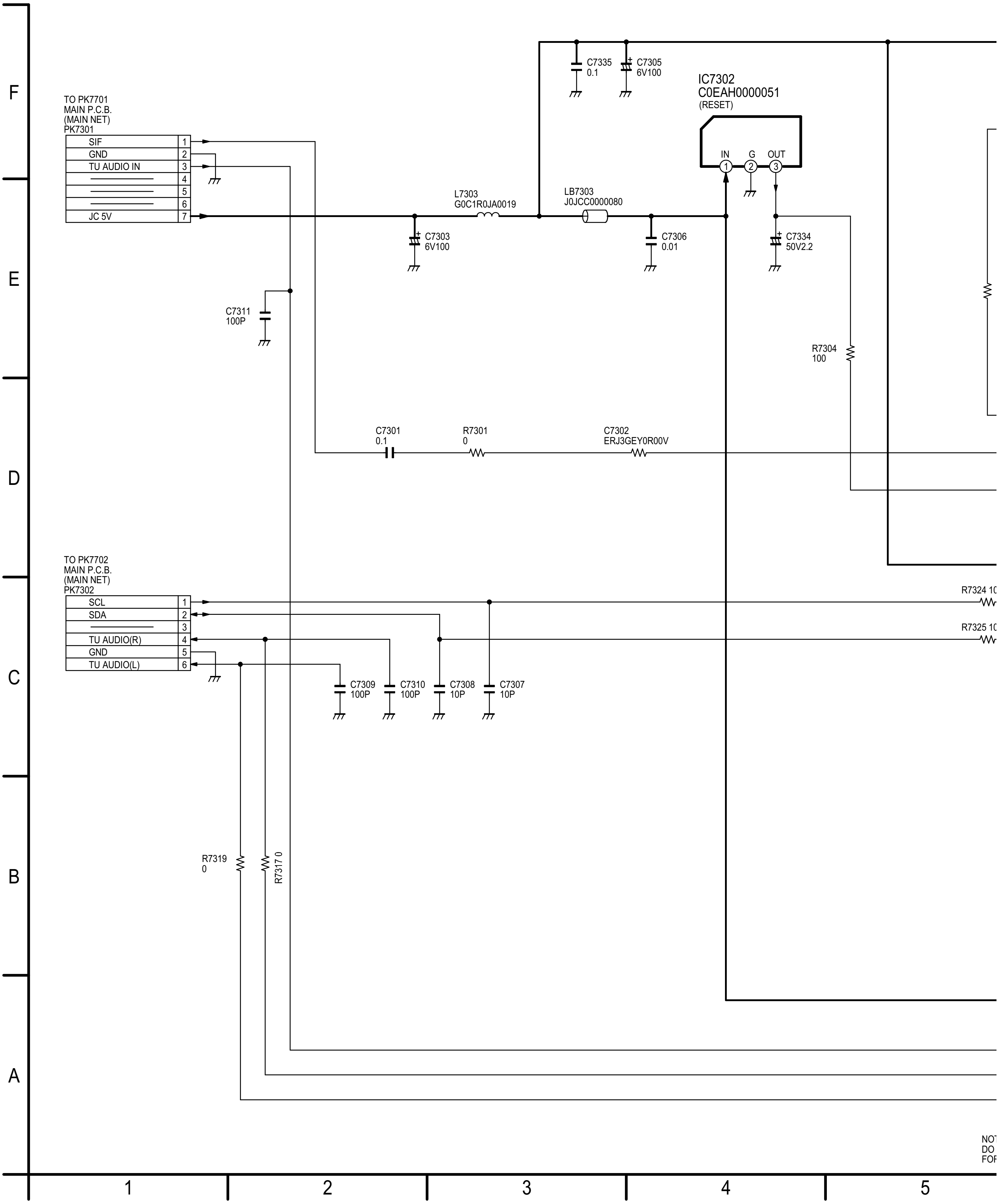

TO FP3501
DIGITAL P.C.B.
(RTSC SECTION)
P9802
40 RESET-
39 GND
38 DD7
37 DD8
36 DD6
35 DD9
34 DD5
33 DD10
32 DD4
31 DD11
30 DD3
29 DD12
28 DD2
27 DD13
26 DD1
25 DD14
24 DD0
23 DD15
22 GND
21
20 DMARQ
19 GND
18 DIOW-
17 GND
16 DIOR-
15 GND
14 IORDY
13
12 DMACK-
11 GND
10 INTRQ
9
8 DA1
7
6 DA0
5 DA2
4 CS0-
3 CS1-
2
1 GND

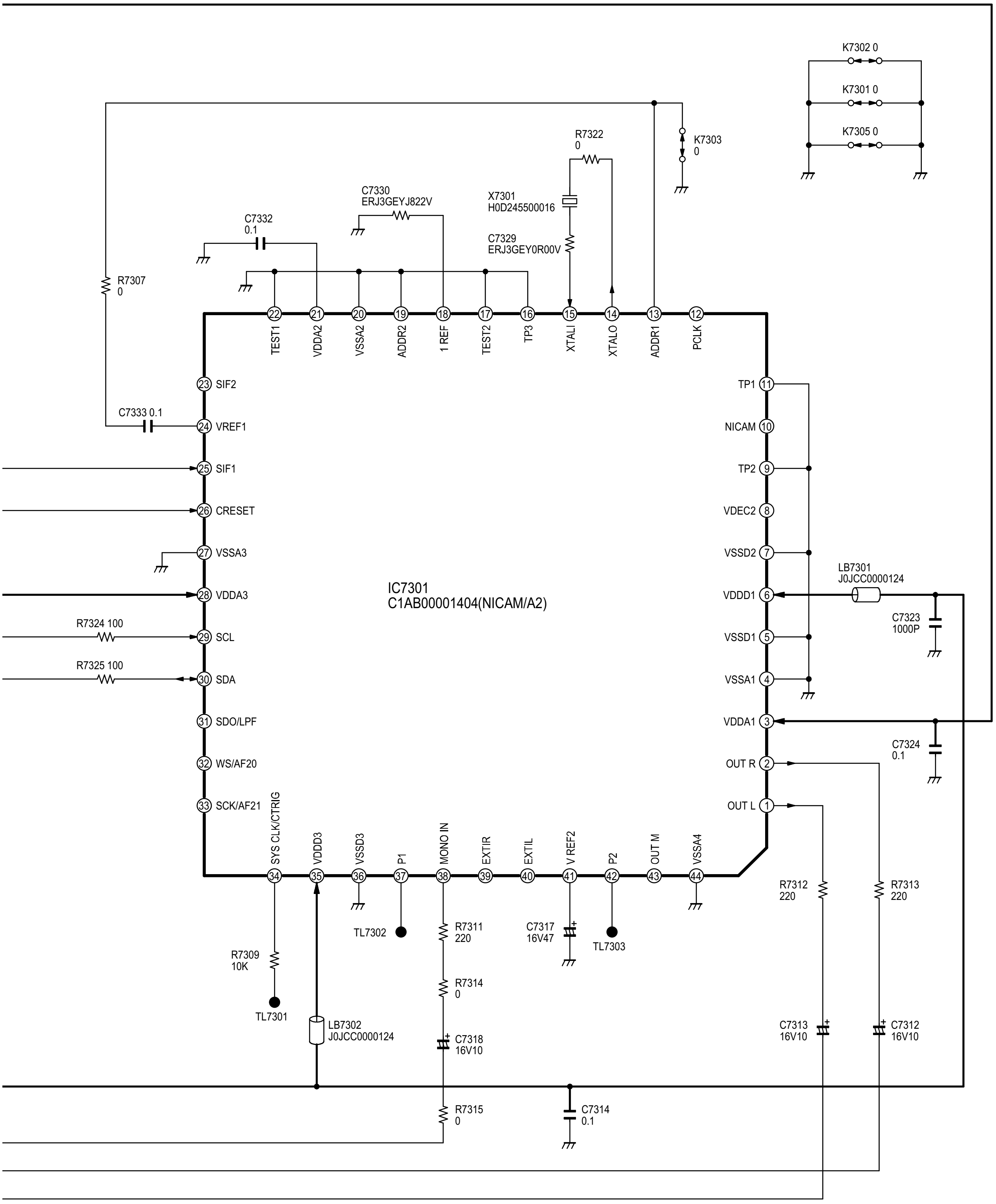
HIS DRAWING FOR ORDERRING.THE CORRECT PART NUMBER IS SHOWN
FERNT OR AMENDED SINCE THIS DRAWING WAS PREPARED.

DMR-E100H GCS/GN/GH/GK
DRIVE ATAPI Schematic Diagram

4 5 6

14.19. Nicam/Decorder Schematic Diagram


F
E
D
C
B
A
1
2
3
4
5
TO PK7701
MAIN P.C.B.
(MAIN NET)
PK7301
SIF 1
GND 2
TU AUDIO IN 3
4
5
6
JC 5V 7
C7335
0.1
C7305
6V100
IC7302
C0EAH0000051
(RESET)
IN
G
OUT
1
2
3
L7303
G0C1R0JA0019
LB7303
J0JCC0000080
C7303
6V100
C7306
0.01
C7334
50V2.2
C7311
100P
R7304
100
C7301
0.1
R7301
0
C7302
ERJ3GEY0R00V
TO PK7702
MAIN P.C.B.
(MAIN NET)
PK7302
SCL 1
SDA 2
3
TU AUDIO(R) 4
GND 5
TU AUDIO(L) 6
R7324 10
R7325 10
C7309
100P
C7310
100P
C7308
10P
C7307
10P
R7319
0
R7317 0

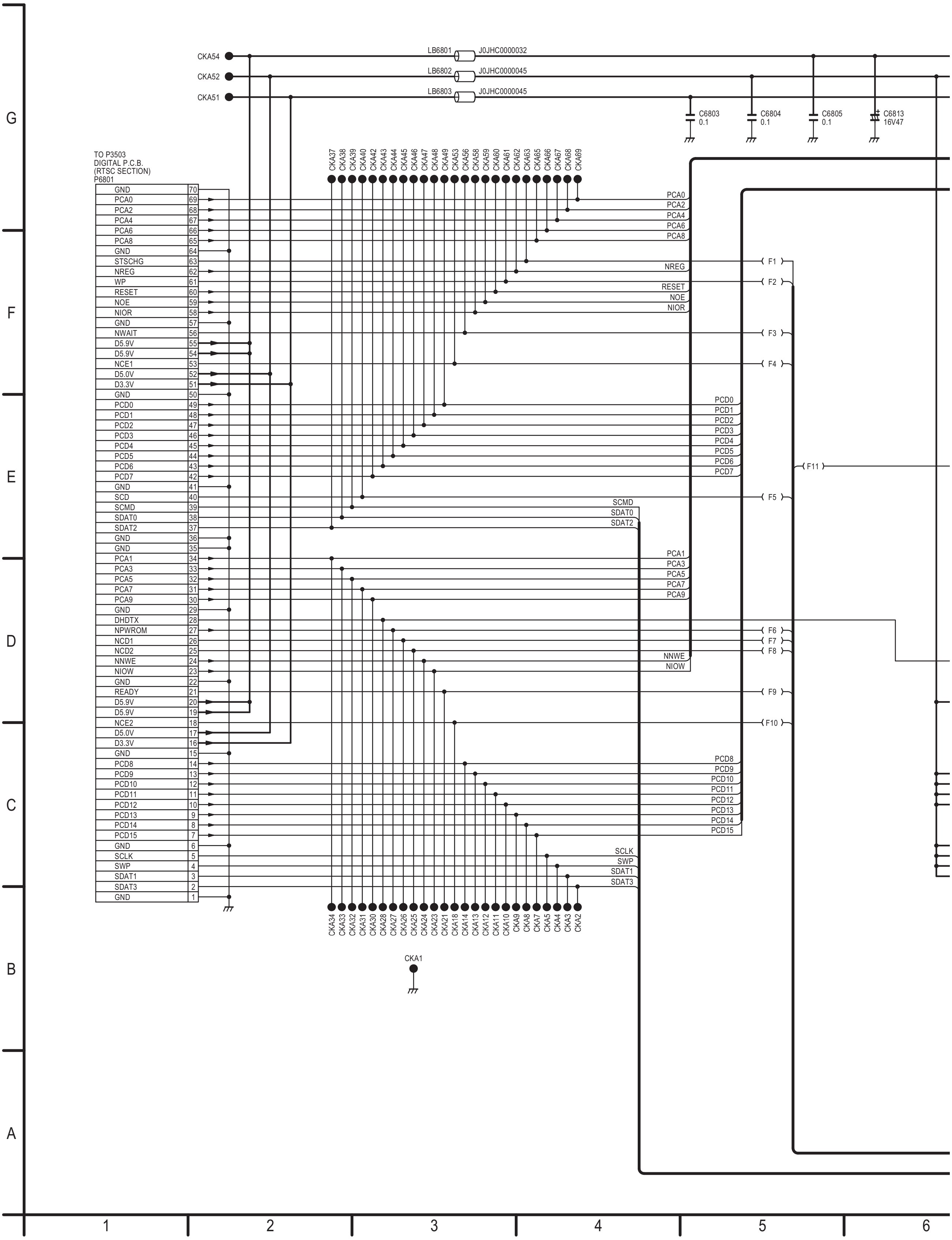

K7302 0
K7301 0
K7305 0
K7303
0
R7322
0
X7301
H0D245500016
C7329
ERJ3GEY0R00V
C7330
ERJ3GEYJ822V
C7332
0.1
R7307
0
22 TEST1
21 VDDA2
20 VSSA2
19 ADDR2
18 1 REF
17 TEST2
16 TP3
15 XTALI
14 XTALO
13 ADDR1
12 PCLK
23 SIF2
C7333 0.1
24 VREF1
25 SIF1
26 CRESET
27 VSSA3
28 VDDA3
R7324 100
29 SCL
R7325 100
30 SDA
31 SDO/LPF
32 WS/AF20
33 SCK/AF21
IC7301
C1AB00001404(NICAM/A2)
TP1 11
NICAM 10
TP2 9
VDEC2 8
VSSD2 7
VDDD1 6
VSSD1 5
VSSA1 4
VDDA1 3
OUT R 2
OUT L 1
LB7301
J0JCC0000124
C7323
1000P
C7324
0.1
34 SYS CLK/CTRIG
35 VDDD3
36 VSSD3
37 P1
38 MONO IN
39 EXTIR
40 EXTIL
41 V REF2
42 P2
43 OUT M
44 VSSA4
R7312
220
R7313
220
TL7302
R7311
220
C7317
16V47
TL7303
R7309
10K
R7314
0
TL7301
LB7302
J0JCC0000124
C7318
16V10
C7313
16V10
C7312
16V10
R7315
0
C7314
0.1

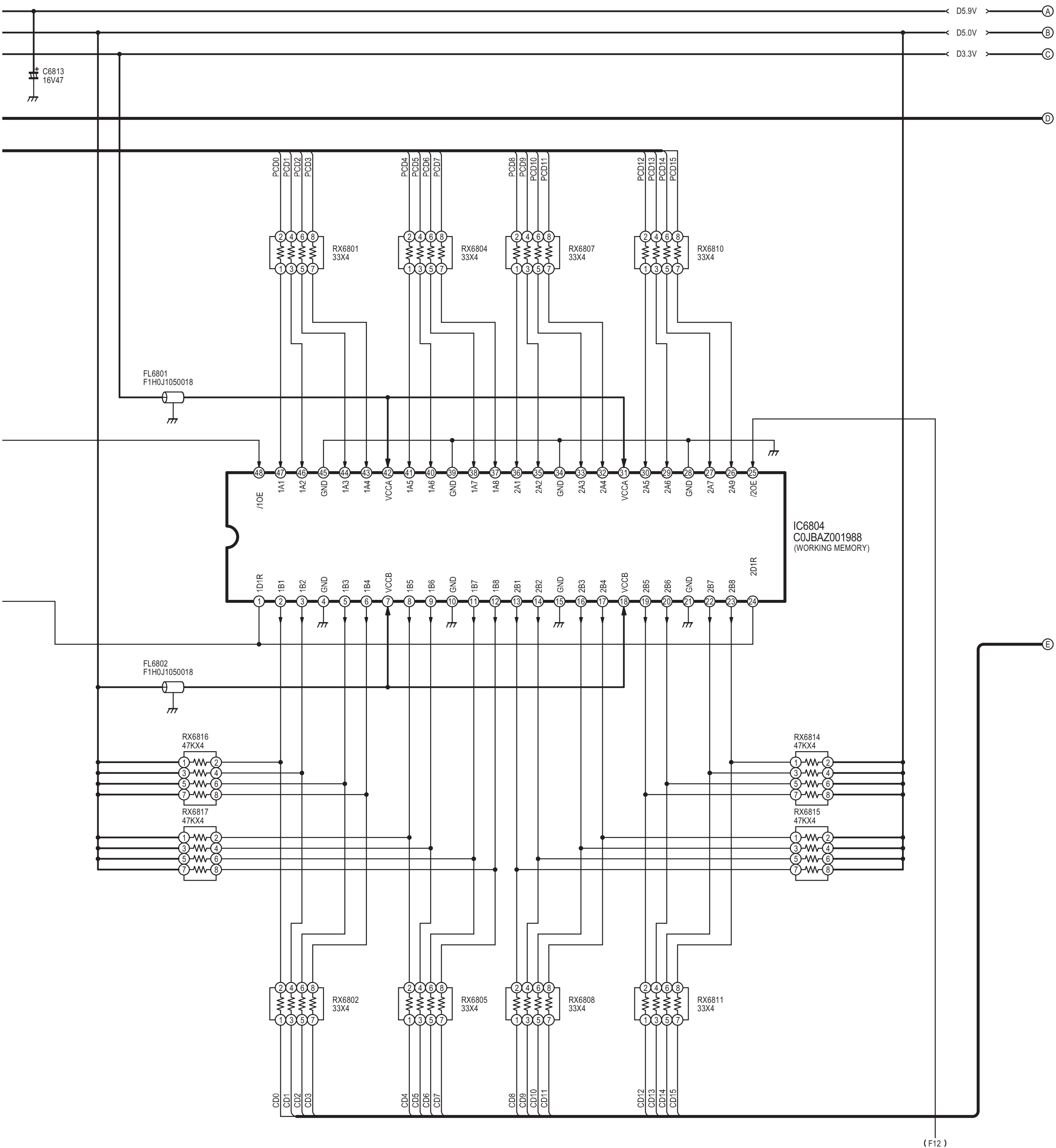
NOTE:
DO NOT USE ANY PART NUMBER SHOWN ON THIS SCHEMATIC DIAGRAM
FOR ORDERING.WHEN YOU ORDER A PART,PLEASE REFER TO PARTS LIST.

DMR-E100H GCS/GN/GH/GK
Nicam/Decoder Schematic Diagram

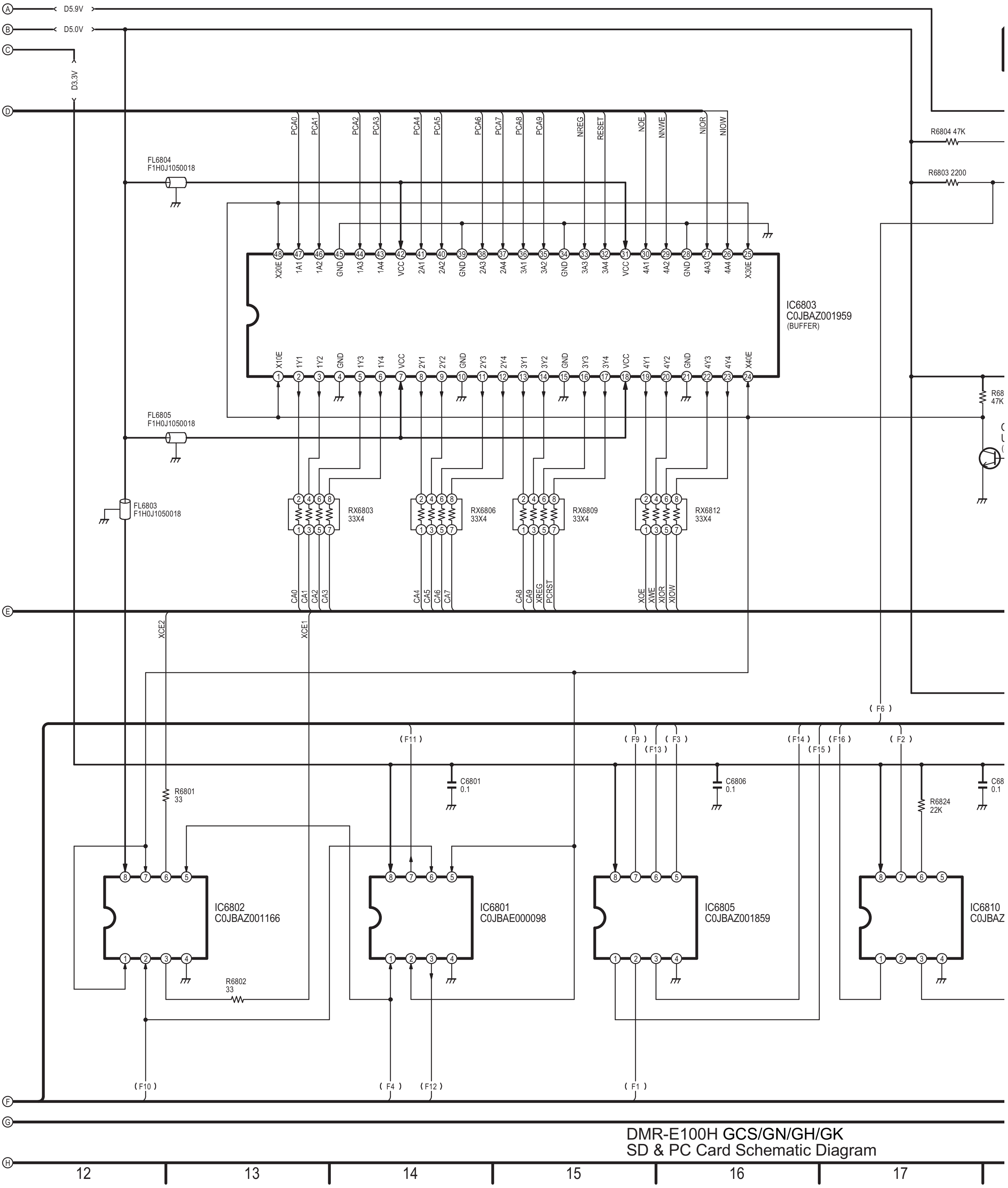
5 6 7 8

14.20. SD & PC Card Schematic Diagram

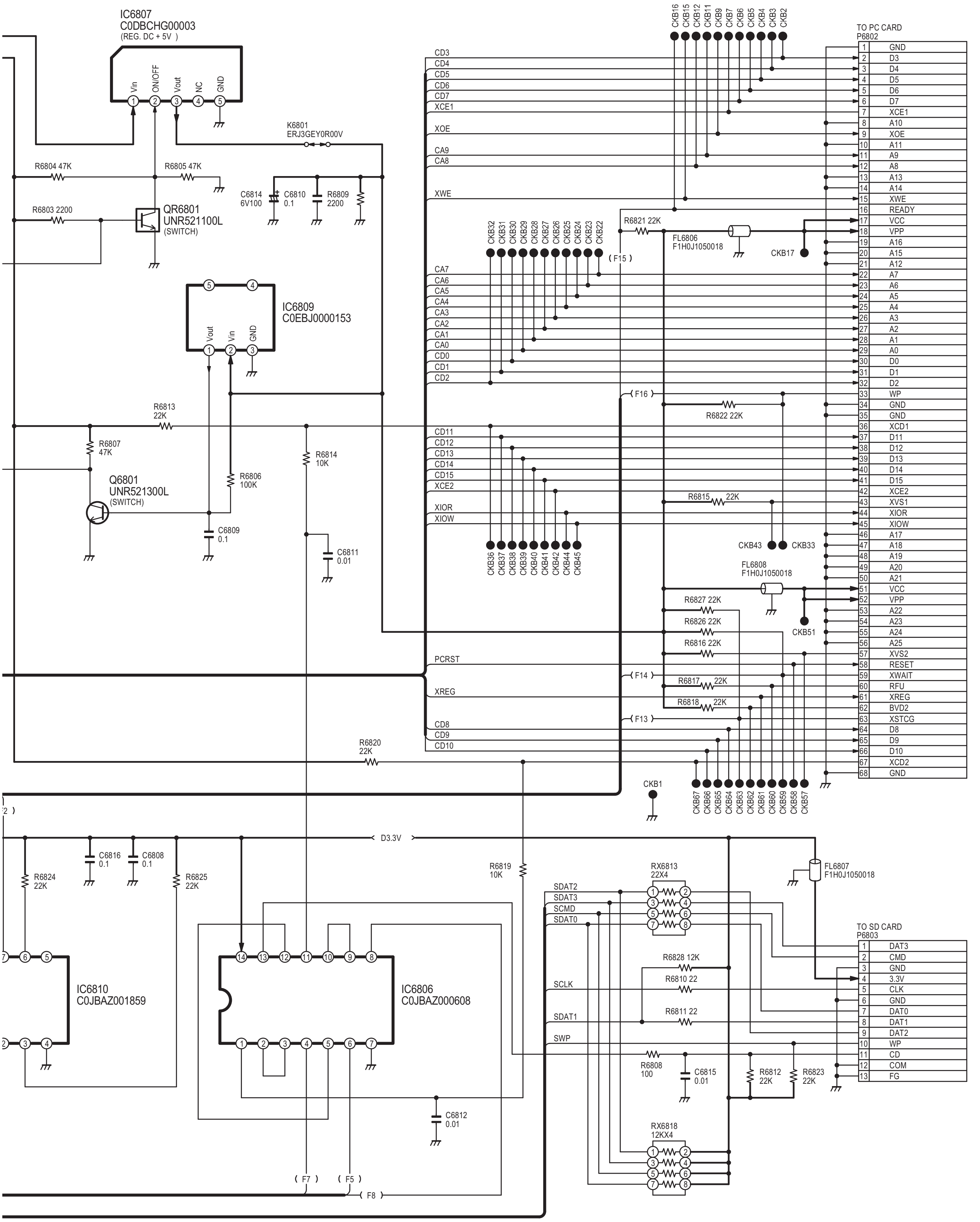

G
F
E
D
C
B
A
1
2
3
4
5
6
CKA54
CKA52
CKA51
LB6801 J0JHC0000032
LB6802 J0JHC0000045
LB6803 J0JHC0000045
C6803 0.1
C6804 0.1
C6805 0.1
C6813 16V47
TO P3503
DIGITAL P.C.B.
(RTSC SECTION)
P6801
GND 70
PCA0 69
PCA2 68
PCA4 67
PCA6 66
PCA8 65
GND 64
STSCHG 63
NREG 62
WP 61
RESET 60
NOE 59
NIOR 58
GND 57
NWAIT 56
D5.9V 55
D5.9V 54
NCE1 53
D5.0V 52
D3.3V 51
GND 50
PCD0 49
PCD1 48
PCD2 47
PCD3 46
PCD4 45
PCD5 44
PCD6 43
PCD7 42
GND 41
SCD 40
SCMD 39
SDAT0 38
SDAT2 37
GND 36
GND 35
PCA1 34
PCA3 33
PCA5 32
PCA7 31
PCA9 30
GND 29
DHDTX 28
NPWROM 27
NCD1 26
NCD2 25
NNWE 24
NIOW 23
GND 22
READY 21
D5.9V 20
D5.9V 19
NCE2 18
D5.0V 17
D3.3V 16
GND 15
PCD8 14
PCD9 13
PCD10 12
PCD11 11
PCD12 10
PCD13 9
PCD14 8
PCD15 7
GND 6
SCLK 5
SWP 4
SDAT1 3
SDAT3 2
GND 1
CKA37 CKA38 CKA39 CKA40 CKA42 CKA43 CKA44 CKA45 CKA46 CKA47 CKA48 CKA49 CKA53 CKA56 CKA58 CKA59 CKA60 CKA61 CKA62 CKA63 CKA65 CKA66 CKA67 CKA68 CKA69
CKA34 CKA33 CKA32 CKA31 CKA30 CKA28 CKA27 CKA26 CKA25 CKA24 CKA23 CKA21 CKA18 CKA14 CKA13 CKA12 CKA11 CKA10 CKA9 CKA8 CKA7 CKA5 CKA4 CKA3 CKA2
CKA1
PCA0
PCA2
PCA4
PCA6
PCA8
NREG
RESET
NOE
NIOR
F1
F2
F3
F4
PCD0
PCD1
PCD2
PCD3
PCD4
PCD5
PCD6
PCD7
F11
F5
SCMD
SDAT0
SDAT2
PCA1
PCA3
PCA5
PCA7
PCA9
F6
F7
F8
NNWE
NIOW
F9
F10
PCD8
PCD9
PCD10
PCD11
PCD12
PCD13
PCD14
PCD15
SCLK
SWP
SDAT1
SDAT3


D5.9V
D5.0V
D3.3V
A
B
C
D
E
F
G
H
C6813
16V47
PCD0 PCD1 PCD2 PCD3
PCD4 PCD5 PCD6 PCD7
PCD8 PCD9 PCD10 PCD11
PCD12 PCD13 PCD14 PCD15
RX6801
33X4
RX6804
33X4
RX6807
33X4
RX6810
33X4
FL6801
F1H0J1050018
FL6802
F1H0J1050018
/1OE 1A1 1A2 GND 1A3 1A4 VCCA 1A5 1A6 GND 1A7 1A8 2A1 2A2 GND 2A3 2A4 VCCA 2A5 2A6 GND 2A7 2A9 /2OE
1D1R 1B1 1B2 GND 1B3 1B4 VCCB 1B5 1B6 GND 1B7 1B8 2B1 2B2 GND 2B3 2B4 VCCB 2B5 2B6 GND 2B7 2B8 2D1R
IC6804
C0JBAZ001988
(WORKING MEMORY)
RX6816
47KX4
RX6817
47KX4
RX6814
47KX4
RX6815
47KX4
RX6802
33X4
RX6805
33X4
RX6808
33X4
RX6811
33X4
CD0 CD1 CD2 CD3
CD4 CD5 CD6 CD7
CD8 CD9 CD10 CD11
CD12 CD13 CD14 CD15
(F12)
6
7
8
9
10
11

DMR-E100H GCS/GN/GH/GK
SD & PC Card Schematic Diagram

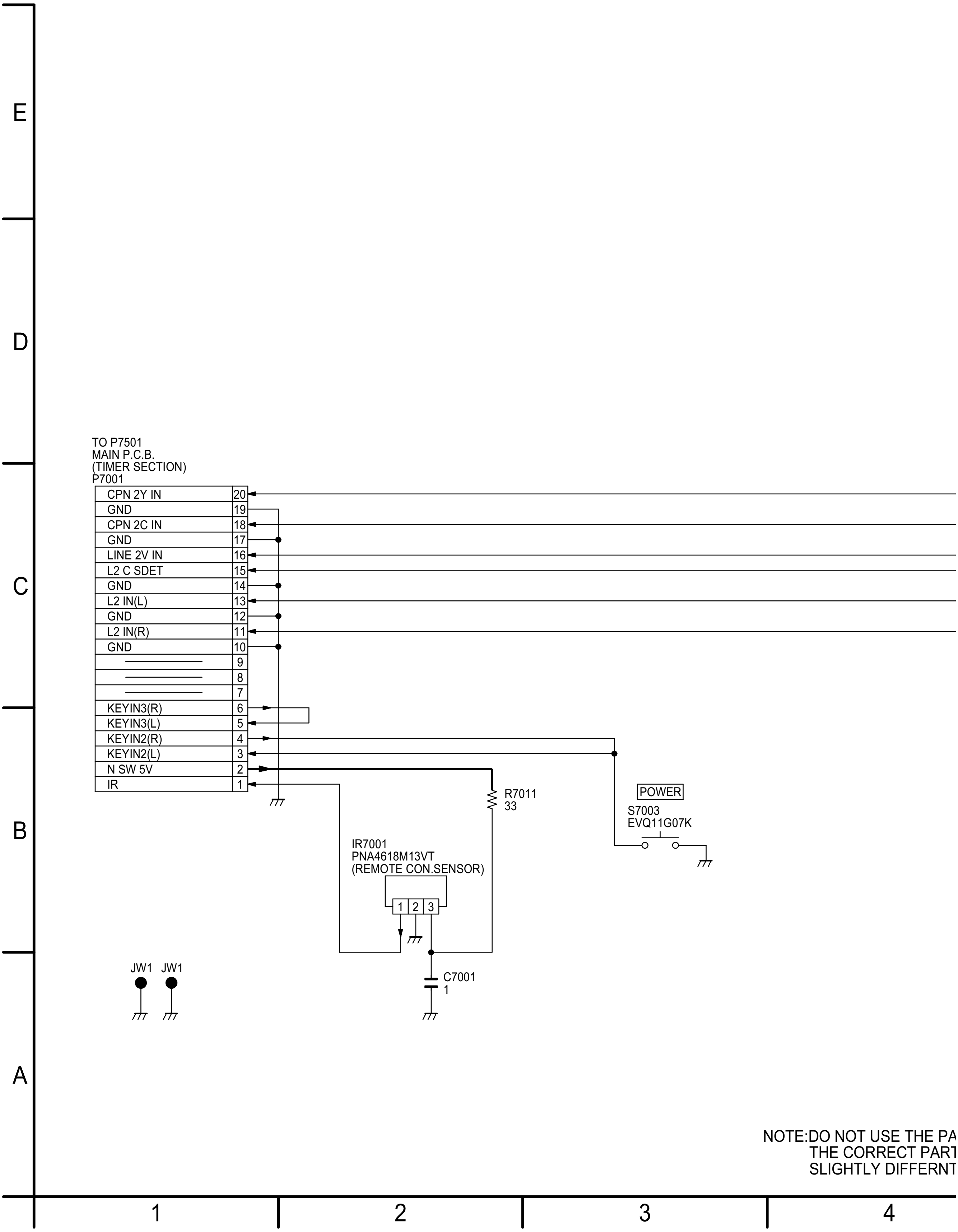

A
B
C
D
E
F
G
H
D5.9V
D5.0V
D3.3V
PCA0
PCA1
PCA2
PCA3
PCA4
PCA5
PCA6
PCA7
PCA8
PCA9
NREG
RESET
NOE
NNWE
NIOR
NIOW
FL6804
F1H0J1050018
FL6805
F1H0J1050018
FL6803
F1H0J1050018
IC6803
C0JBAZ001959
(BUFFER)
X20E
1A1
1A2
GND
1A3
1A4
VCC
2A1
2A2
2A3
2A4
3A1
3A2
3A3
3A4
4A1
4A2
4A3
4A4
X30E
X10E
1Y1
1Y2
1Y3
1Y4
2Y1
2Y2
2Y3
2Y4
3Y1
3Y2
3Y3
3Y4
4Y1
4Y2
4Y3
4Y4
X40E
RX6803
33X4
RX6806
33X4
RX6809
33X4
RX6812
33X4
CA0
CA1
CA2
CA3
CA4
CA5
CA6
CA7
CA8
CA9
XREG
PCRST
XOE
XWE
XIOR
XIOW
XCE2
XCE1
R6804 47K
R6803 2200
R68
47K
(F6)
(F11)
(F9)
(F3)
(F13)
(F14)
(F16)
(F15)
(F2)
C6801
0.1
C6806
0.1
C68
0.1
R6801
33
R6802
33
R6824
22K
IC6802
C0JBAZ001166
IC6801
C0JBAE000098
IC6805
C0JBAZ001859
IC6810
C0JBAZ
(F10)
(F4)
(F12)
(F1)
12
13
14
15
16
17

DMR-E100H GCS/GN/GH/GK
SD & PC Card Schematic Diagram

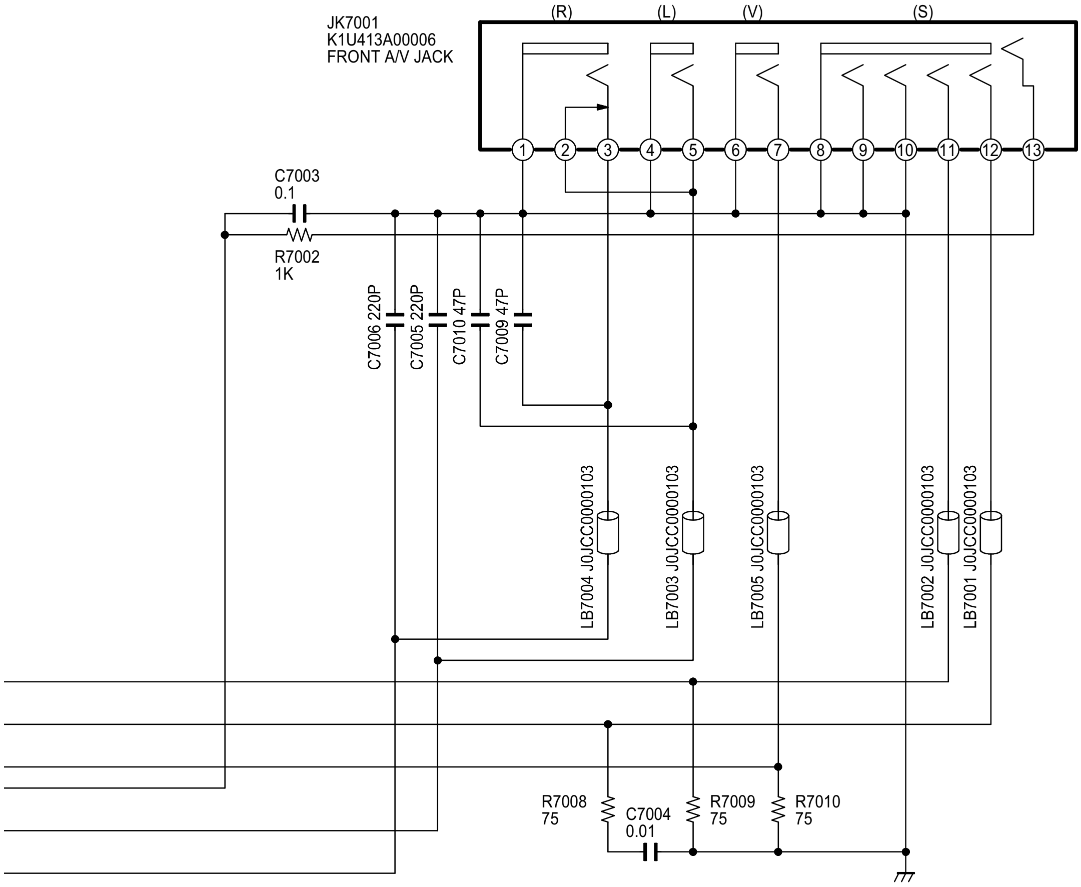

IC6807
C0DBCHG00003
(REG. DC + 5V)
Vin
ON/OFF
Vout
NC
GND
1
2
3
4
5
K6801
ERJ3GEY0R00V
R6804 47K
R6805 47K
R6803 2200
QR6801
UNR521100L
(SWITCH)
C6814
6V100
C6810
0.1
R6809
2200
IC6809
C0EBJ0000153
Vout
Vin
GND
R6813
22K
R6807
47K
Q6801
UNR521300L
(SWITCH)
R6806
100K
C6809
0.1
R6814
10K
C6811
0.01
R6820
22K
F2
D3.3V
C6816
0.1
C6808
0.1
R6824
22K
R6825
22K
IC6810
C0JBAZ001859
IC6806
C0JBAZ000608
C6812
0.01
R6819
10K
F7
F5
F8
CD3
CD4
CD5
CD6
CD7
XCE1
XOE
CA9
CA8
XWE
CA7
CA6
CA5
CA4
CA3
CA2
CA1
CA0
CD0
CD1
CD2
CD11
CD12
CD13
CD14
CD15
XCE2
XIOR
XIOW
PCRST
XREG
CD8
CD9
CD10
CKB16
CKB15
CKB12
CKB11
CKB9
CKB7
CKB6
CKB5
CKB4
CKB3
CKB2
CKB32
CKB31
CKB30
CKB29
CKB28
CKB27
CKB26
CKB25
CKB24
CKB23
CKB22
CKB36
CKB37
CKB38
CKB39
CKB40
CKB41
CKB42
CKB44
CKB45
F15
F16
F14
F13
R6821 22K
FL6806
F1H0J1050018
CKB17
R6822 22K
R6815 22K
CKB43
CKB33
FL6808
F1H0J1050018
R6827 22K
R6826 22K
R6816 22K
CKB51
R6817 22K
R6818 22K
CKB1
CKB67
CKB66
CKB65
CKB64
CKB63
CKB62
CKB61
CKB60
CKB59
CKB58
CKB57
TO PC CARD
P6802
1 GND
2 D3
3 D4
4 D5
5 D6
6 D7
7 XCE1
8 A10
9 XOE
10 A11
11 A9
12 A8
13 A13
14 A14
15 XWE
16 READY
17 VCC
18 VPP
19 A16
20 A15
21 A12
22 A7
23 A6
24 A5
25 A4
26 A3
27 A2
28 A1
29 A0
30 D0
31 D1
32 D2
33 WP
34 GND
35 GND
36 XCD1
37 D11
38 D12
39 D13
40 D14
41 D15
42 XCE2
43 XVS1
44 XIOR
45 XIOW
46 A17
47 A18
48 A19
49 A20
50 A21
51 VCC
52 VPP
53 A22
54 A23
55 A24
56 A25
57 XVS2
58 RESET
59 XWAIT
60 RFU
61 XREG
62 BVD2
63 XSTCG
64 D8
65 D9
66 D10
67 XCD2
68 GND
SDAT2
SDAT3
SCMD
SDAT0
SCLK
SDAT1
SWP
RX6813
22X4
FL6807
F1H0J1050018
R6828 12K
R6810 22
R6811 22
R6808
100
C6815
0.01
R6812
22K
R6823
22K
RX6818
12KX4
TO SD CARD
P6803
1 DAT3
2 CMD
3 GND
4 3.3V
5 CLK
6 GND
7 DAT0
8 DAT1
9 DAT2
10 WP
11 CD
12 COM
13 FG
7
18
19
20
21
22

DMR-E100H GCS/GN/GH/GK
SD & PC Card Schematic Diagram

14.21. Front (L) Schematic Diagram


E
D
C
B
A
1
2
3
4
TO P7501
MAIN P.C.B.
(TIMER SECTION)
P7001
CPN 2Y IN 20
GND 19
CPN 2C IN 18
GND 17
LINE 2V IN 16
L2 C SDET 15
GND 14
L2 IN(L) 13
GND 12
L2 IN(R) 11
GND 10
9
8
7
KEYIN3(R) 6
KEYIN3(L) 5
KEYIN2(R) 4
KEYIN2(L) 3
N SW 5V 2
IR 1
R7011
33
POWER
S7003
EVQ11G07K
IR7001
PNA4618M13VT
(REMOTE CON.SENSOR)
1 2 3
C7001
1
JW1
JW1

NOTE:DO NOT USE THE PA
THE CORRECT PART
SLIGHTLY DIFFERNT

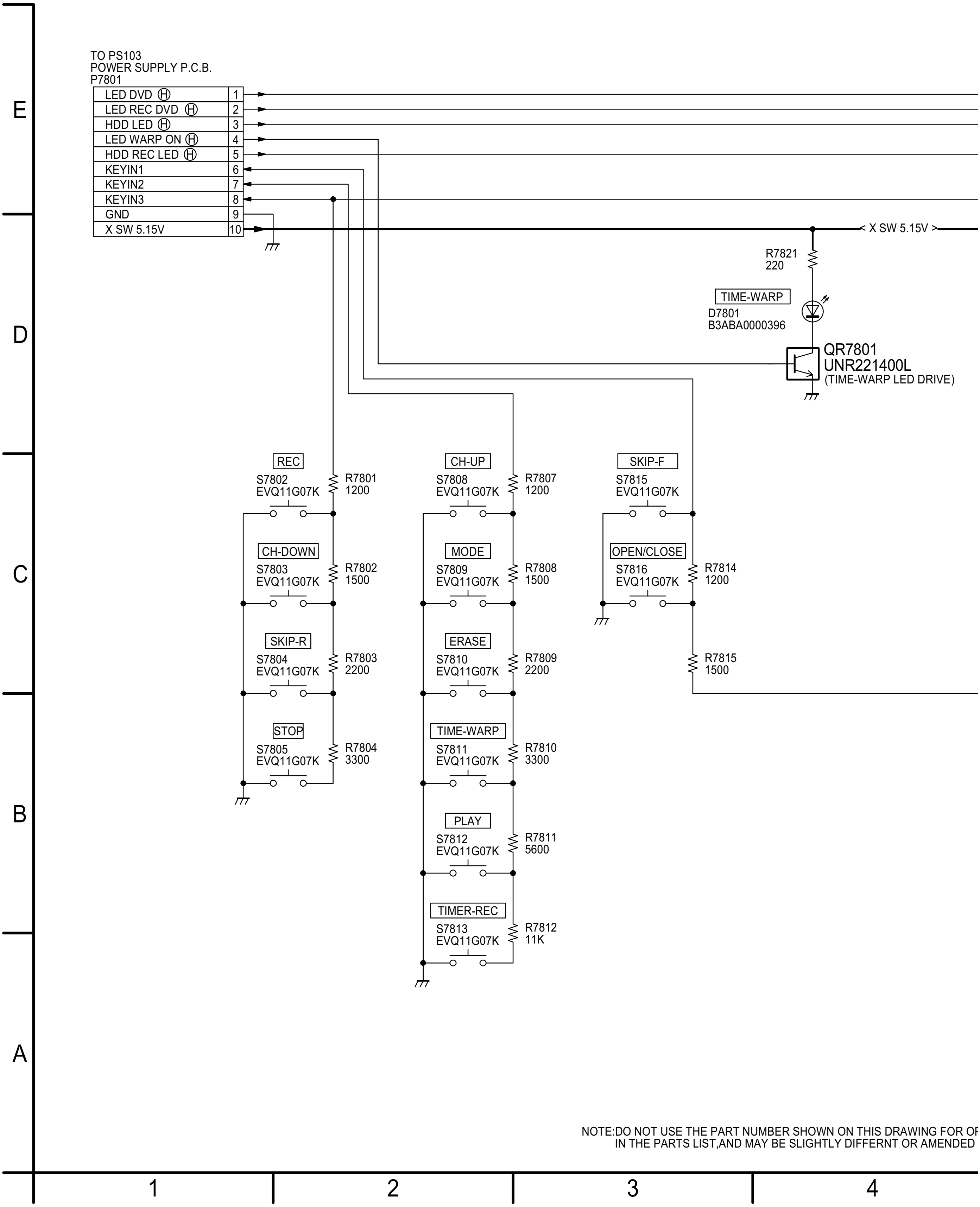

JK7001
K1U413A00006
FRONT A/V JACK
(R)
(L)
(V)
(S)
1
2
3
4
5
6
7
8
9
10
11
12
13
C7003
0.1
R7002
1K
C7006 220P
C7005 220P
C7010 47P
C7009 47P
LB7004 J0JCC0000103
LB7003 J0JCC0000103
LB7005 J0JCC0000103
LB7002 J0JCC0000103
LB7001 J0JCC0000103
R7008
75
C7004
0.01
R7009
75
R7010
75

)T USE THE PART NUMBER SHOWN ON THIS DRAWING FOR ORDERING.
ORRECT PART NUMBER IS SHOWN IN THE PARTS LIST,AND MAY BE
TLY DIFFERNT OR AMENDED SINCE THIS DRAWING WAS PREPARED.

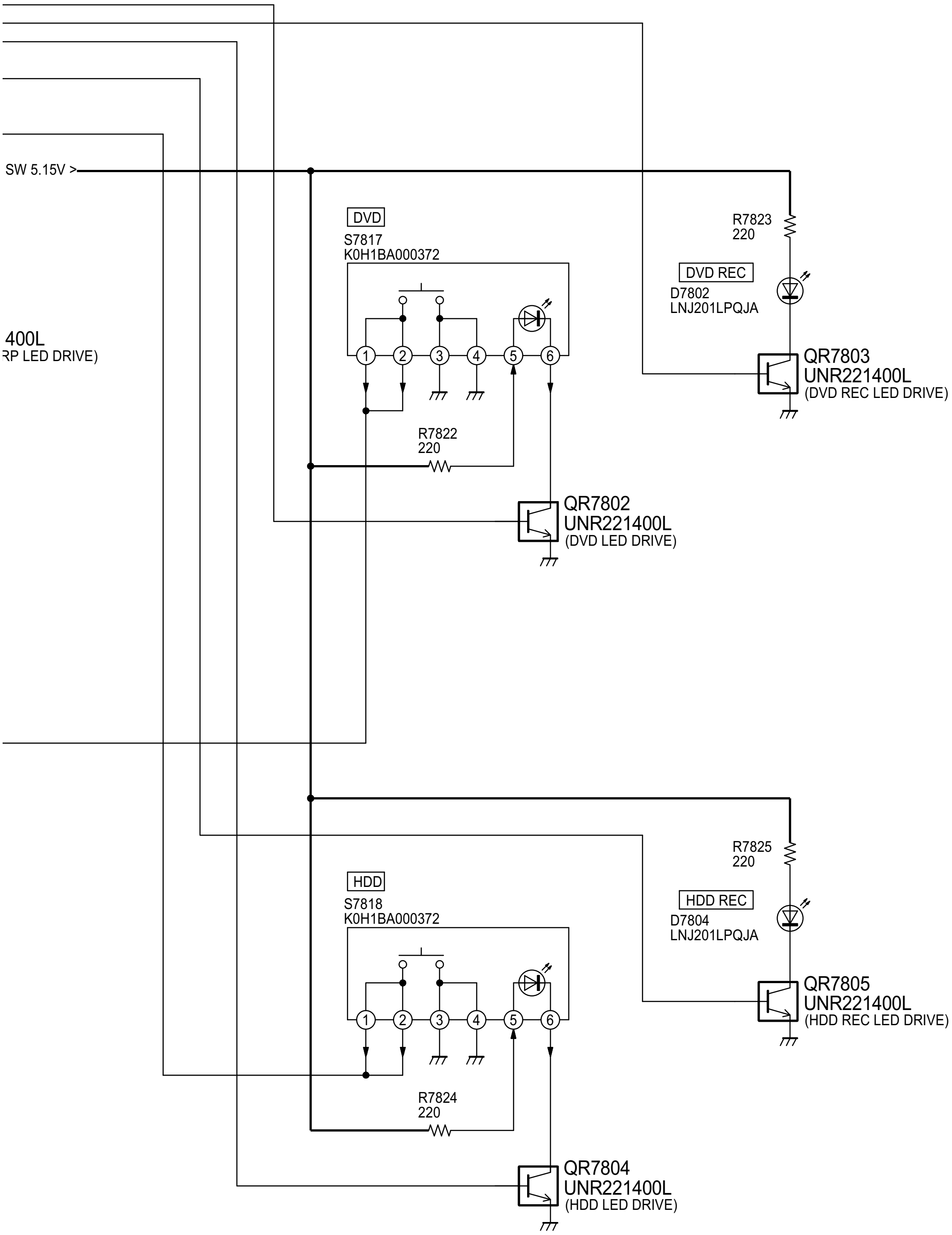
DMR-E100H GCS/GN/GH/GK
Front(L) Schematic Diagram

4	5	6	7

14.22. Front (R) Schematic Diagram


E
D
C
B
A
1
2
3
4
TO PS103
POWER SUPPLY P.C.B.
P7801
LED DVD Ⓗ 1
LED REC DVD Ⓗ 2
HDD LED Ⓗ 3
LED WARP ON Ⓗ 4
HDD REC LED Ⓗ 5
KEYIN1 6
KEYIN2 7
KEYIN3 8
GND 9
X SW 5.15V 10
< X SW 5.15V >
R7821
220
TIME-WARP
D7801
B3ABA0000396
QR7801
UNR221400L
(TIME-WARP LED DRIVE)
REC
S7802
EVQ11G07K
R7801
1200
CH-DOWN
S7803
EVQ11G07K
R7802
1500
SKIP-R
S7804
EVQ11G07K
R7803
2200
STOP
S7805
EVQ11G07K
R7804
3300
CH-UP
S7808
EVQ11G07K
R7807
1200
MODE
S7809
EVQ11G07K
R7808
1500
ERASE
S7810
EVQ11G07K
R7809
2200
TIME-WARP
S7811
EVQ11G07K
R7810
3300
PLAY
S7812
EVQ11G07K
R7811
5600
TIMER-REC
S7813
EVQ11G07K
R7812
11K
SKIP-F
S7815
EVQ11G07K
OPEN/CLOSE
S7816
EVQ11G07K
R7814
1200
R7815
1500

NOTE:DO NOT USE THE PART NUMBER SHOWN ON THIS DRAWING FOR OF
IN THE PARTS LIST,AND MAY BE SLIGHTLY DIFFERNT OR AMENDED


SW 5.15V >
400L
RP LED DRIVE)
DVD
S7817
K0H1BA000372
1
2
3
4
5
6
R7822
220
QR7802
UNR221400L
(DVD LED DRIVE)
R7823
220
DVD REC
D7802
LNJ201LPQJA
QR7803
UNR221400L
(DVD REC LED DRIVE)
HDD
S7818
K0H1BA000372
1
2
3
4
5
6
R7824
220
QR7804
UNR221400L
(HDD LED DRIVE)
R7825
220
HDD REC
D7804
LNJ201LPQJA
QR7805
UNR221400L
(HDD REC LED DRIVE)

S DRAWING FOR ORDERING. THE CORRECT PART NUMBER IS SHOWN
RNT OR AMENDED SINCE THIS DRAWING WAS PREPARED.

DMR-E100H GCS/GN/GH/GK
Front(R) Schematic Diagram

5 6 7